

USB			PCI ROUTING TABLE				
Pair	Device		DEVICE	IDSEL	IRQ(Default)		
0	USB1	_	DEVIOL		(20.00.)		
1	BT		MiniPCI	AD22	н		
2	USB2		R5C832	AD20	F: 1394		
3	NEW C	-	1130032	7.520	H:6 in 1		
4	USB3		LAN(RTL8100CL)	AD17	E		
5	CCD		CARDBUS CB1410	AD16	G		
6	MINIC1		CARDBUS CB1410	ADIO	•		
7	NC		USB UHCI	AD29	A, B, C, D		
			USB 2.0 EHCI	AD29	А		
LK0 LK1	PCM IEEE1394		DMI-to-PCI AC97 Modem	AD30	В		

AC97 Audio

LPC Bridge

PCI Express

Azalia Controller

IDE

SATA

SMBus

AD31

AD28

AD27

В

В

A. B. C. D

Α

В

REQ# / GNT#

REQ#1/ GNT#1

REQ#3/ GNT#3

REQ#2/ GNT#2

REQ#0 / GNT#0

REQ#1 / GNT#1

RESISTOR

PCI CLK2 LAN

PCI CLK3 MINI

PCI_CLK4 KBC

PCI CLK5 FWH

PCI CLK6 SIO

PCI CLK7 SPDIFOUT

	REGIOTOR					
ſ	Symbol name	Value	Tolerance	Rating	Size	
l			(J: 5%, F: 1%, D: 0.5%, B: 0.1 %)	0402=> 1/16W, 25V 0603 => 1/16W, 75V 0805 => 1/10W, 100V	2=>0402, 3=>0603, 5=>0805, 6=>1206, 0=>1210	
Ī	10KR3	10K Ohm	If no letter, it means J: 5%	1/16W, 75V	0603	
	33D3R5	33.3 Ohm	If no letter, it means J: 5%	1/10W, 100V	0805	
2	1KR3F	1K Ohm	F: 1%	1/16W, 75V	0603	

The naming rule is value + R + size + tolerance
For the value, it can be read by the number before R. (R means resistor)
For the tolerance, it can be read from the last letter.
For the rating, we don't show on the symbol name.

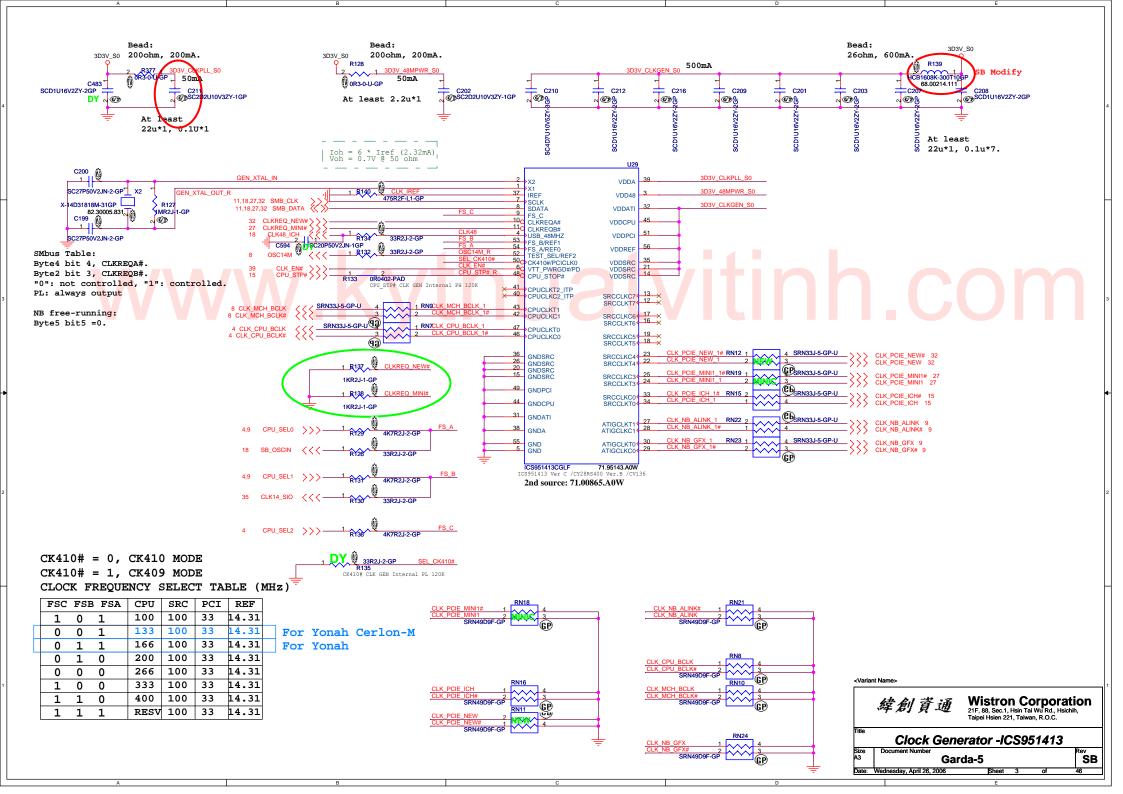
Α

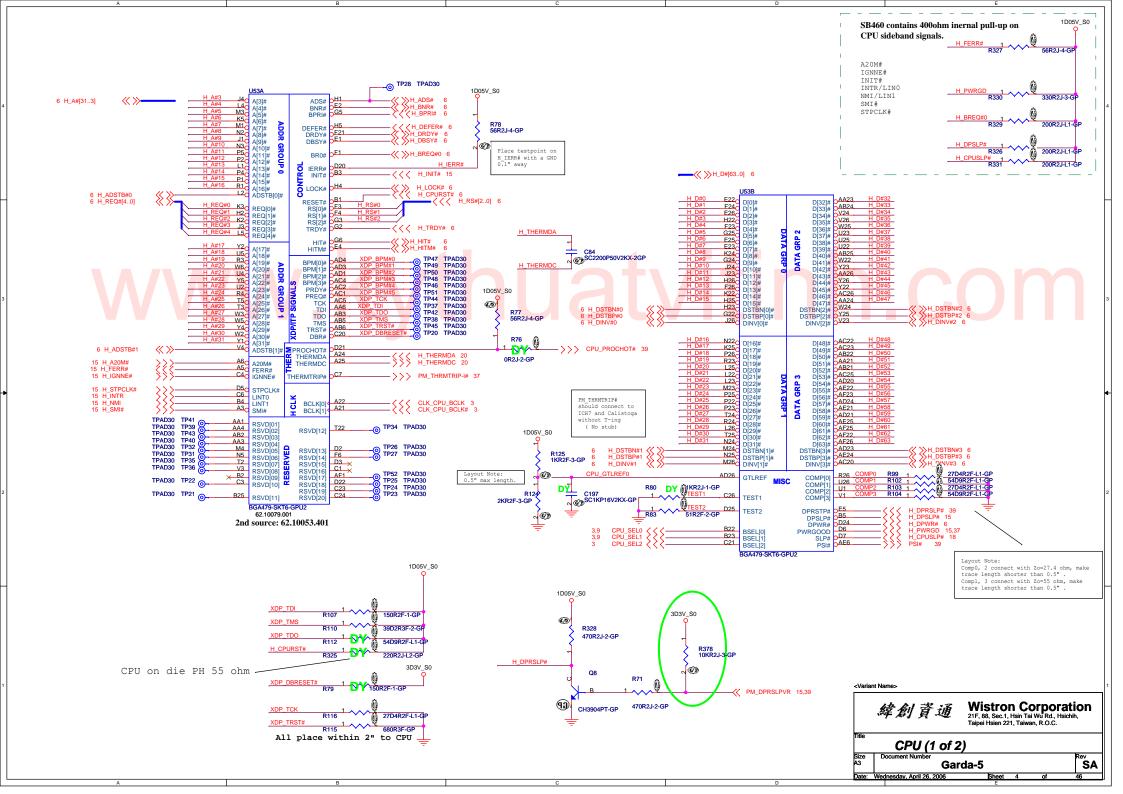
CAPACITOR				
Symbol name	Value	Tolerance	Rating	Size
		(J: +/-5, K: +/-10, M: +/-20, Z: +80/-20)	(X5R / X7R < 80%, Y5V/Y5U/Z5U < 1/3)	2=>0402, 3=>0603, 5=>0805, 6=>1206, 0=>1210
SCD1U10V2MX-1	0.1uF	M/X5R	10V	0402
SC10U6D3V5MX	10uF	M/X5R	6.3V	0805
SC2D2U16V5ZY	2 2uF	Z/Y5V	16V	0805

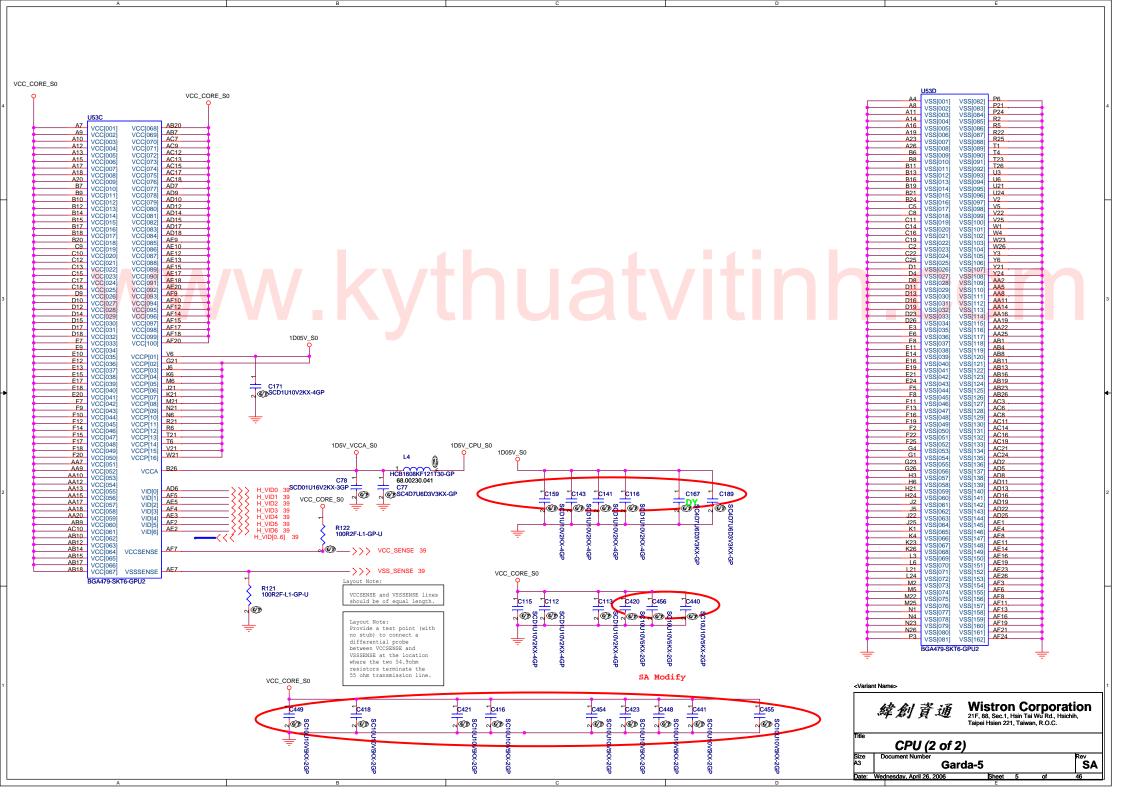
-1 => symbol version, nonsense to EE characteristic

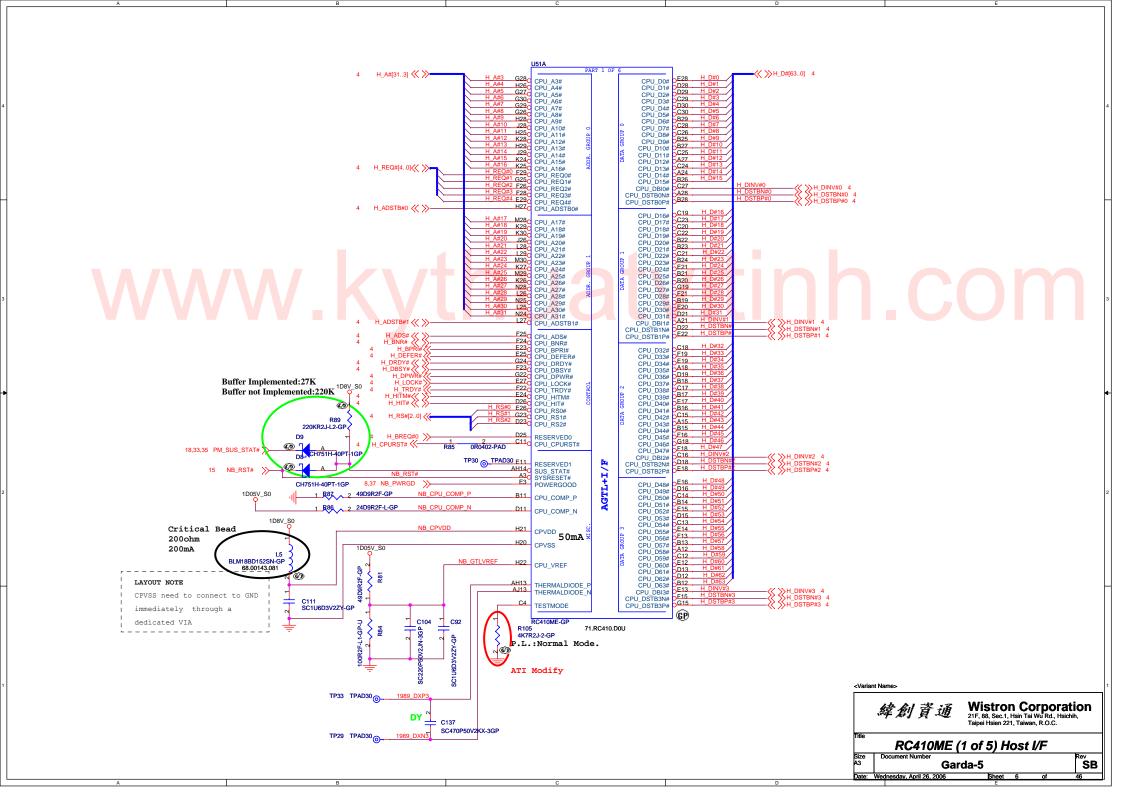
For the size, R2=>0402, R3=>0603, R5=>0805,....

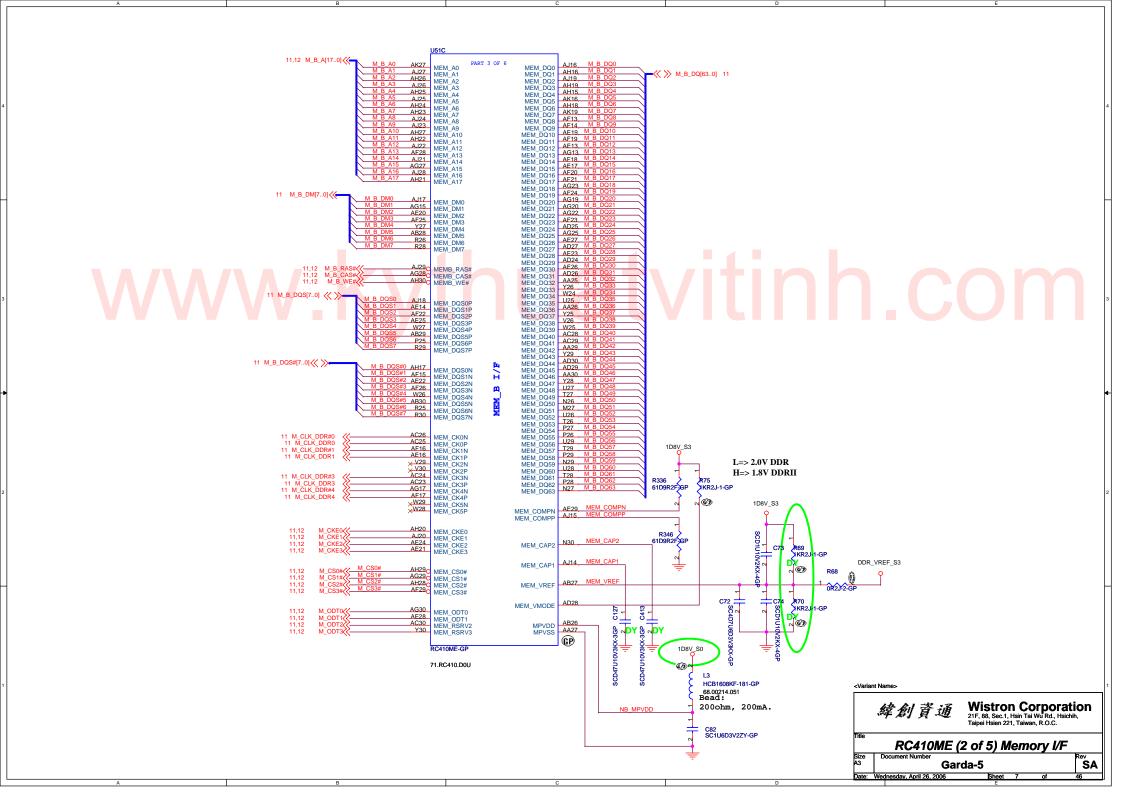
D History 2006/04/26 (-1 Modify) 1. page 27, change R8/R226 to 100 ohm due to power/email to dark. 2. page 15, change C286/C287 from 18pf to 15pf due to frequence shift (from -6.7 to 4ppm). 3. page 23, change C295/C294 from 15p to 12p due to frequence shift(from -23.3 to 7.9ppm). 4. EMI Solution for USB/MDC a. Change L23, L24, L31, L32 to "69.10084.071". b. del R353,R354,R356,R360,R445,R446. c. Change L1, L2 to "68.00331.011". 5. Page 44, change C12/C14 to 78.10699.43L due to 78.10699.42L Obsoleted. ______ 2006/04/13 (-1 Modify) 1. Page 31, R447/R448 tp 33ohm. 2. Page 45, Add D4:83.P4SSM.OAM. 3. Page 44, Change C321 from 78.10492.4BL to 78.10224.2BL(1000P, 50V, K0603). 4. Page 23, change R209 from 5.6K to 5.37K. 5. Page 24, change XF1 from 68.68161.30A to 68.01201.30A. 6. Page 46, Mini card stand-off(銅柱) need to be changed from 34.4P401.001 to 34.4A907.001. 7. change 84.27002.L04 to 84.27002.F31. 2006/04/10 (-1 Modify) 1. Page 8, add "LVDS DIGON" solution from ATI PA note. 2. Page 31, Add R to GND and serial R for U60 pin13/15. 2006/04/03 (SB Modify) 1. Page 40, Dummy C593. 2. Page 44, Del C32. 3. Page 41, DCBATOUT 51120 change to DCBATOUT (Del G4,G5,G6,G7,G8) 4. Page 4/5, updae CPU symbol. 5. Page 15, Change X5 to same as X1 due to ME high limit issue, Cap. the same as X1 but should fine-tune 6. Page 39/41/42, change "GAP-CLOSE-PWR" to 0 ohm PAD due to layout concern. 2006/03/31 (SB Modify) 1. Page 3, change R139 to bead and C211 to 2.2u for CRT Jitter. 2. Page 6, change R105 from 1.8K to 4.7K. 3. Page 8, change C165 to 2.2u for ATI recommend. 4. Page 8, SIV EDID CLK/DAT issue, change RN53 to 4.7K. 5. Page 14, SIV RBG fail: 6. Page 15, a. PCIRST1#(1394) shoulder: Add 33 ohm @ SB. b. PLT RST1# overshot : change R144 to 33ohm & R141 to 100P. c. Add Oohm for RTC power for ATI recommend. 7. Page 40 , add 10U Cap. 8. Page 13/27, change Green LED4/LED5/LED1 to 83.00190.L70. (manual change yellow LED6/LED3/LED8/LED2 to 83.00190.S70). 9. EMI request: a. Page 13, USB PP5, USB PN5 add COMMON CHOKE. b. EC28, EC34, C208 add 0.1 µCap. c. CLK48 ICH(near CLK GEN.), SB CLK33 FWH(near R177) add 20p Cap.. _______ 2006/03/28 (SB Modify) 1. Page 14, change Q15/Q14 to 2N7002 for SIV CRT SMBus bug. 2. Page 15, Change C248/C261/C264/C263/C252 from 78.10491.4FL to 78.10523.5F1, and C262 from 78.10693.41L to 78.10623.51L. 3. Page 8, Add "LCDVDD ON" PL 100K. 4. Page 41, change U7 to A04406(84.04406.A37). 5. Page 33, KBC GPI009 for 1394. 6. Page 33, add 1u Cap. for ENE ECRST# spec. 2ms. 7. Page 31, add audio popo noise solution. 8. Page 25, change C520 to 1U for "GBRST#". 9. Page 28, change "GBUS GRST# 1" timing. Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C. Reference -1 Garda-5

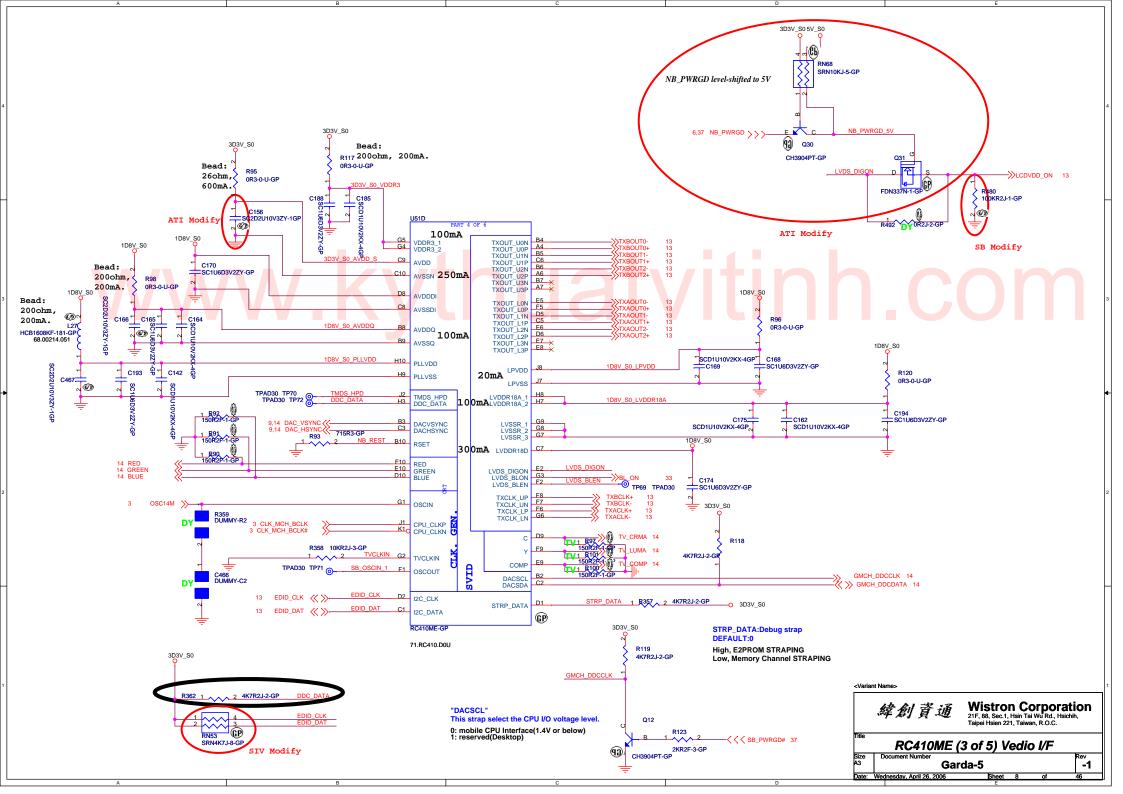






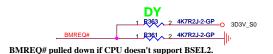


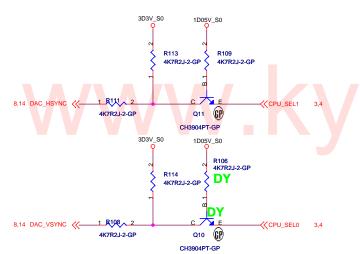




NB Strap pins

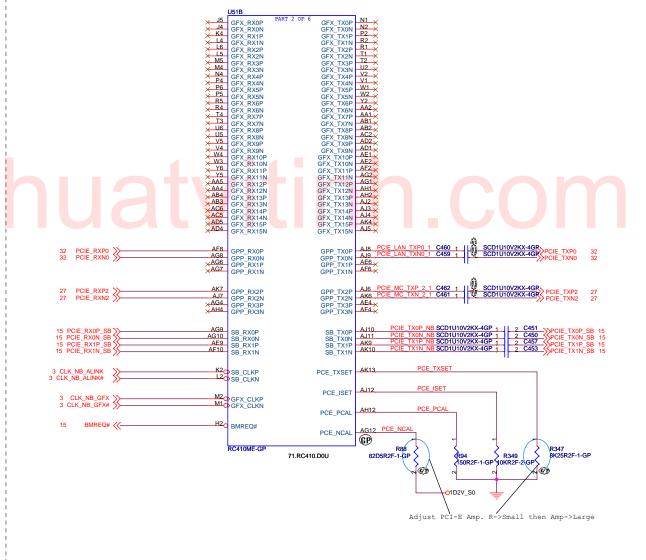
All pull-up and pull-down resistors are 4.7kohm.





Select the FSB SPEED

	BMREQ#	HSYNC	VSYNC	Freq.
	0	0	0	100MHZ
	0	0	1	133MHZ
	0	1	0	
L	0	1	1	166MHZ
	1	0	0	100MHZ
	1	0	1	100MHZ
	1	1	0	
	1	1	1	



Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

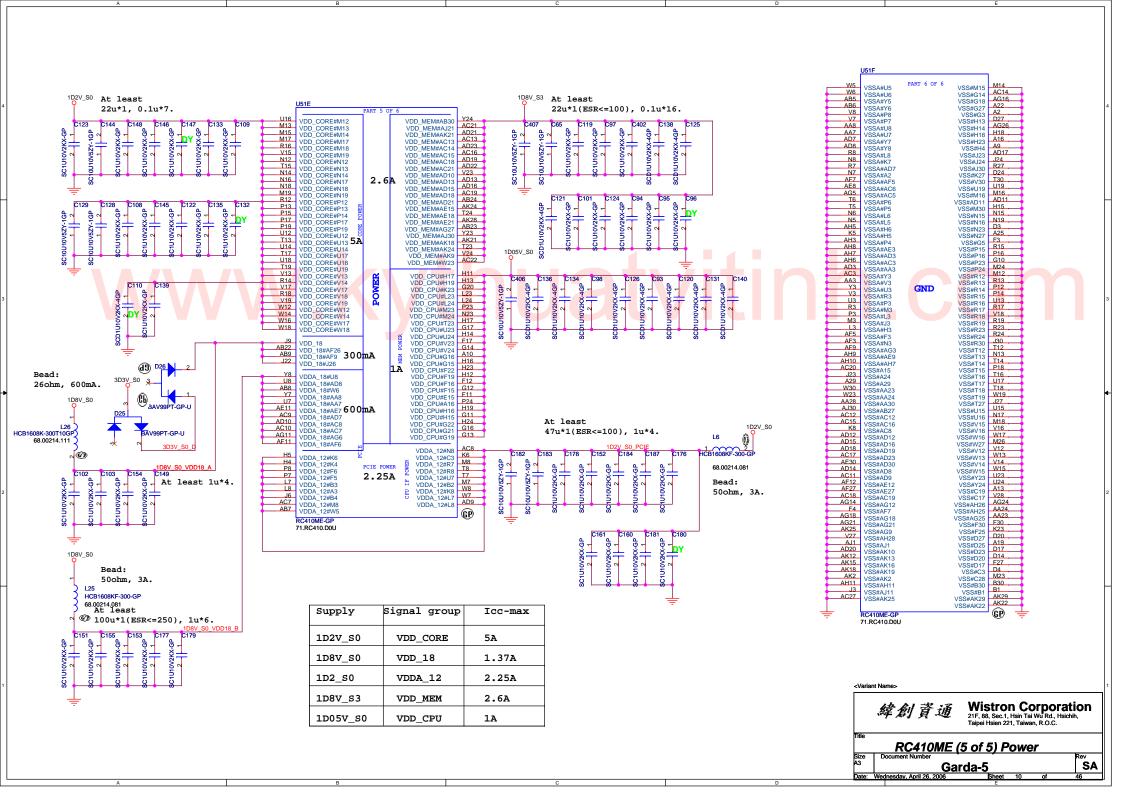
Title

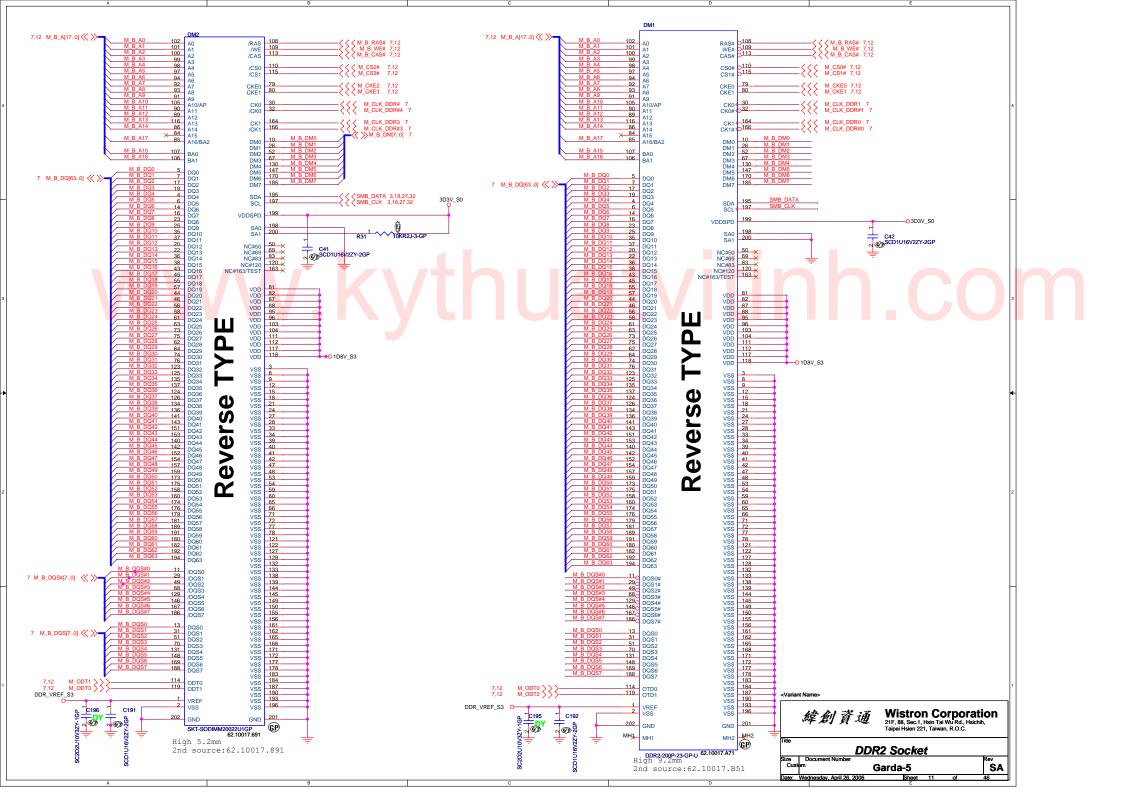
RC410ME (4 of 5) PCI-E & Strap

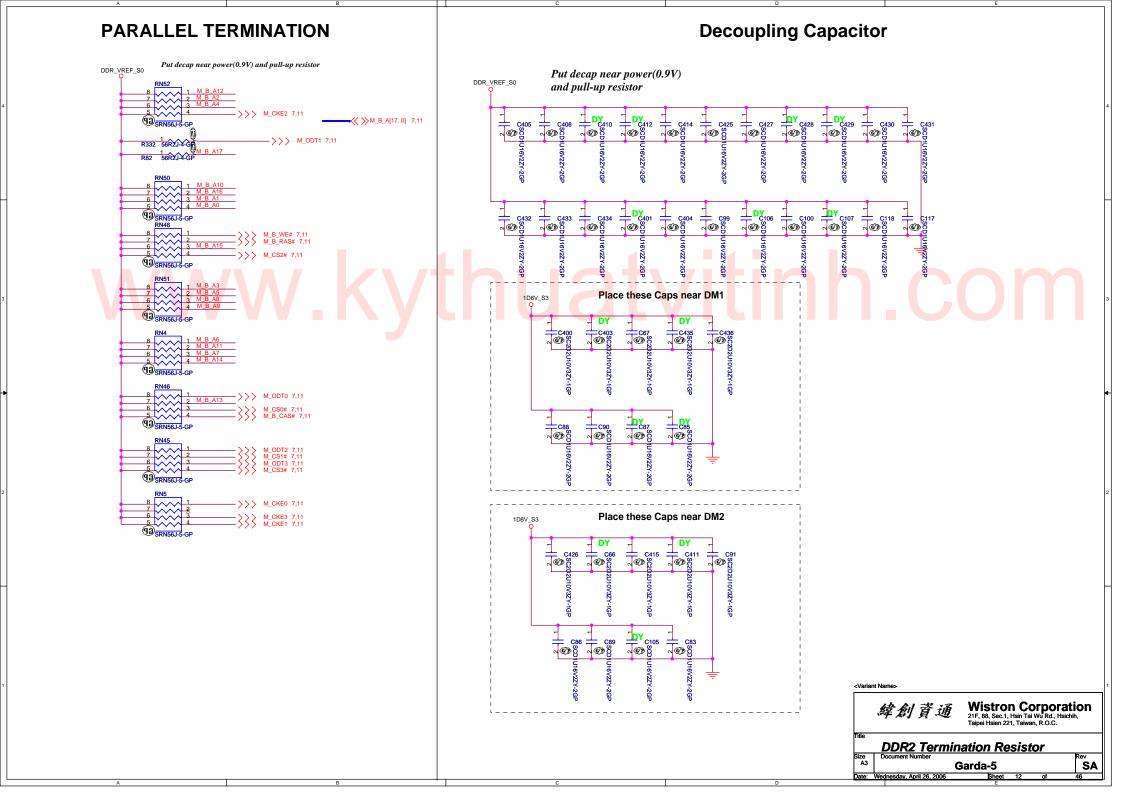
Size Document Number

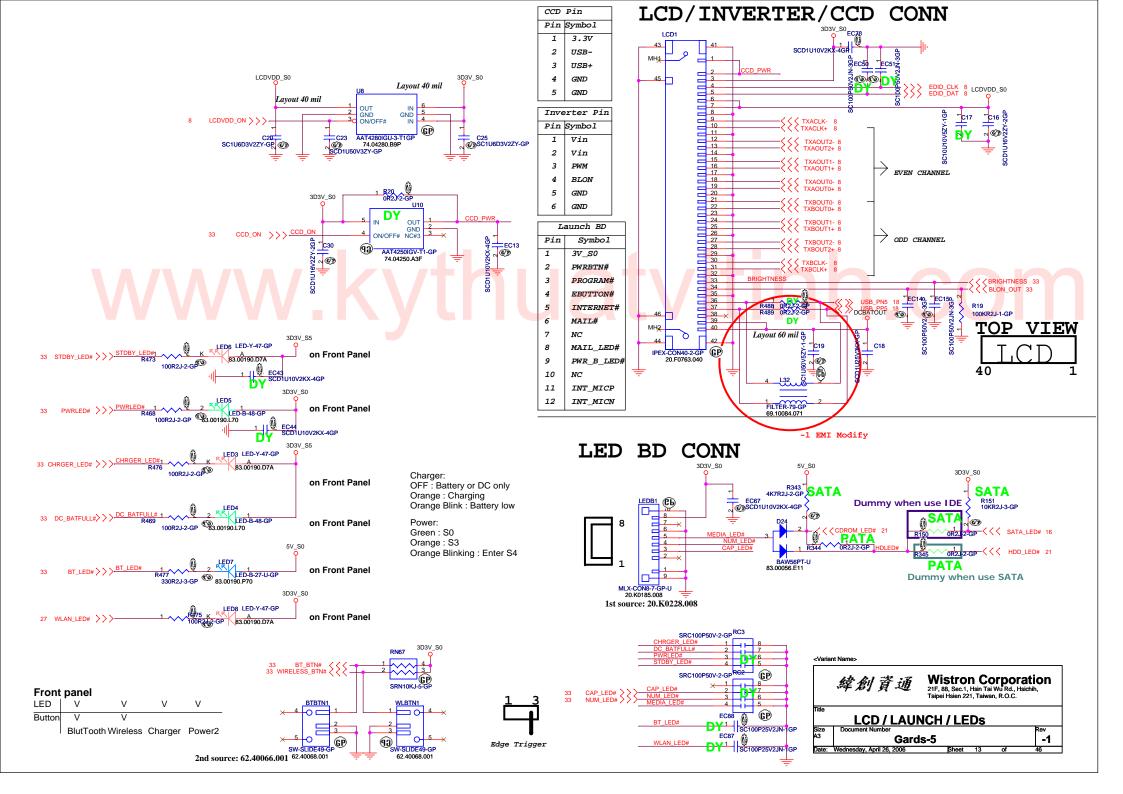
A3 Garda-5

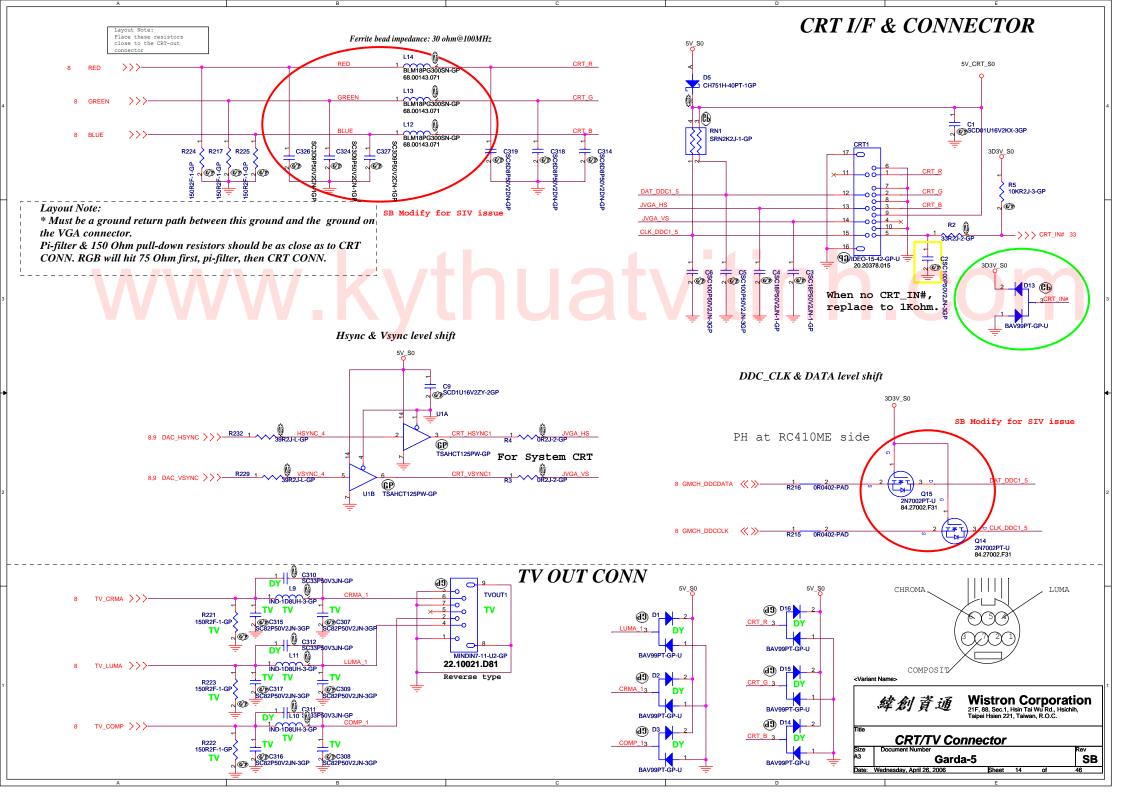
Dete: Wednesday, April 26, 2006 Sheet 9 of 46

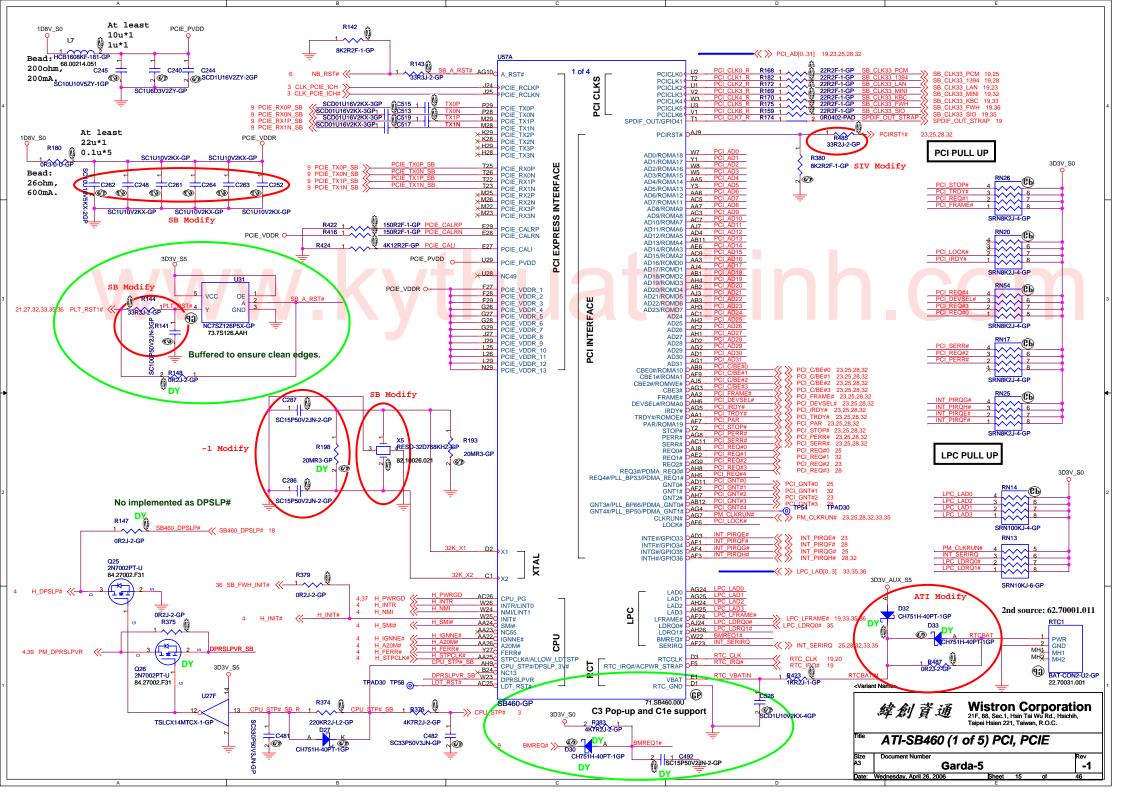


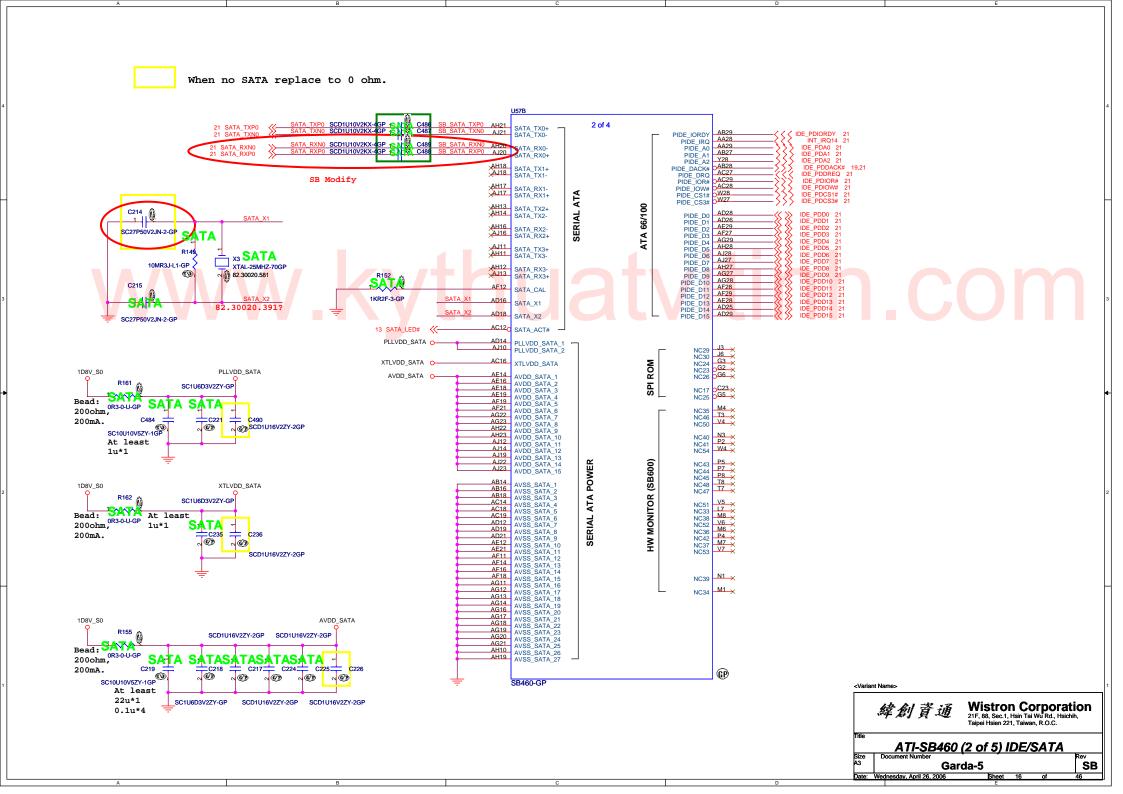


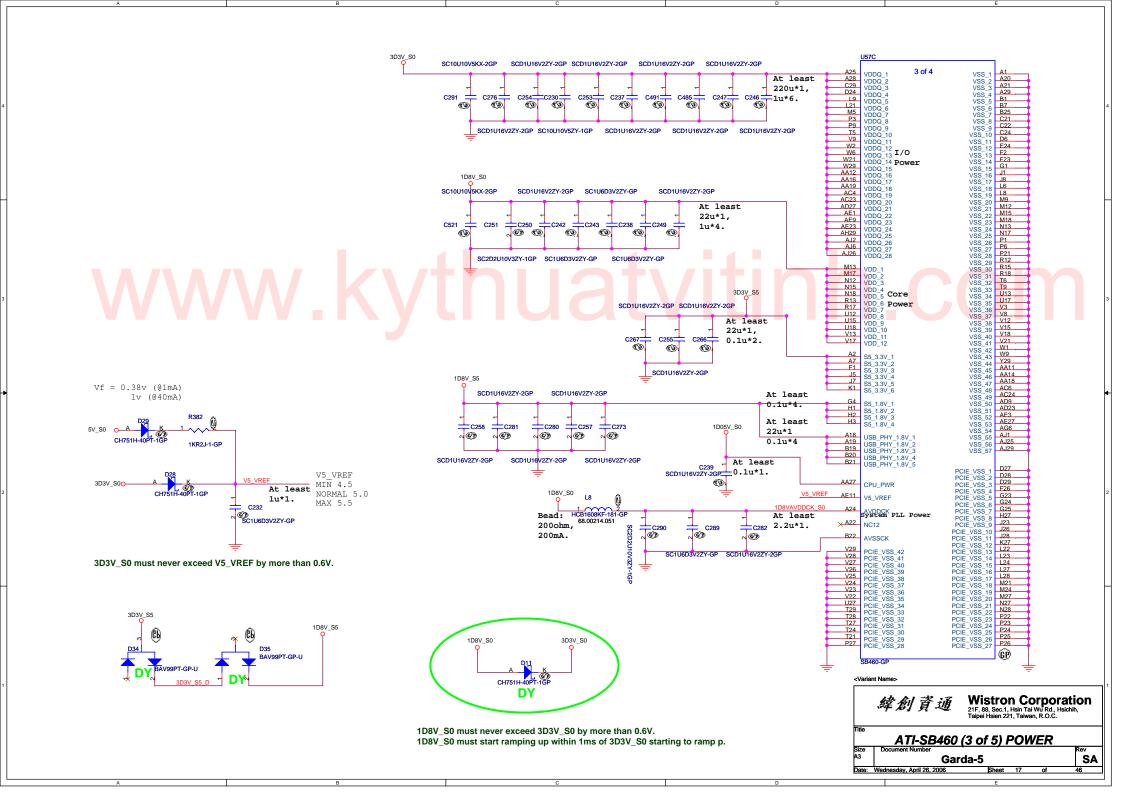


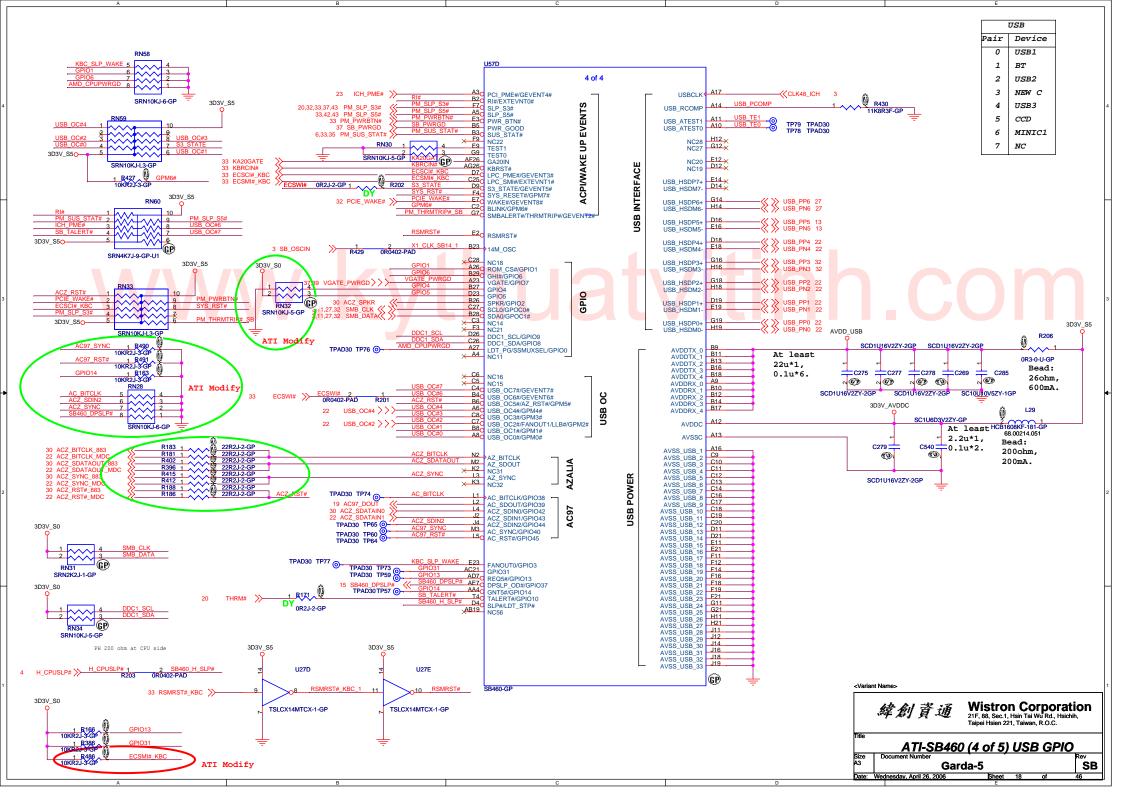


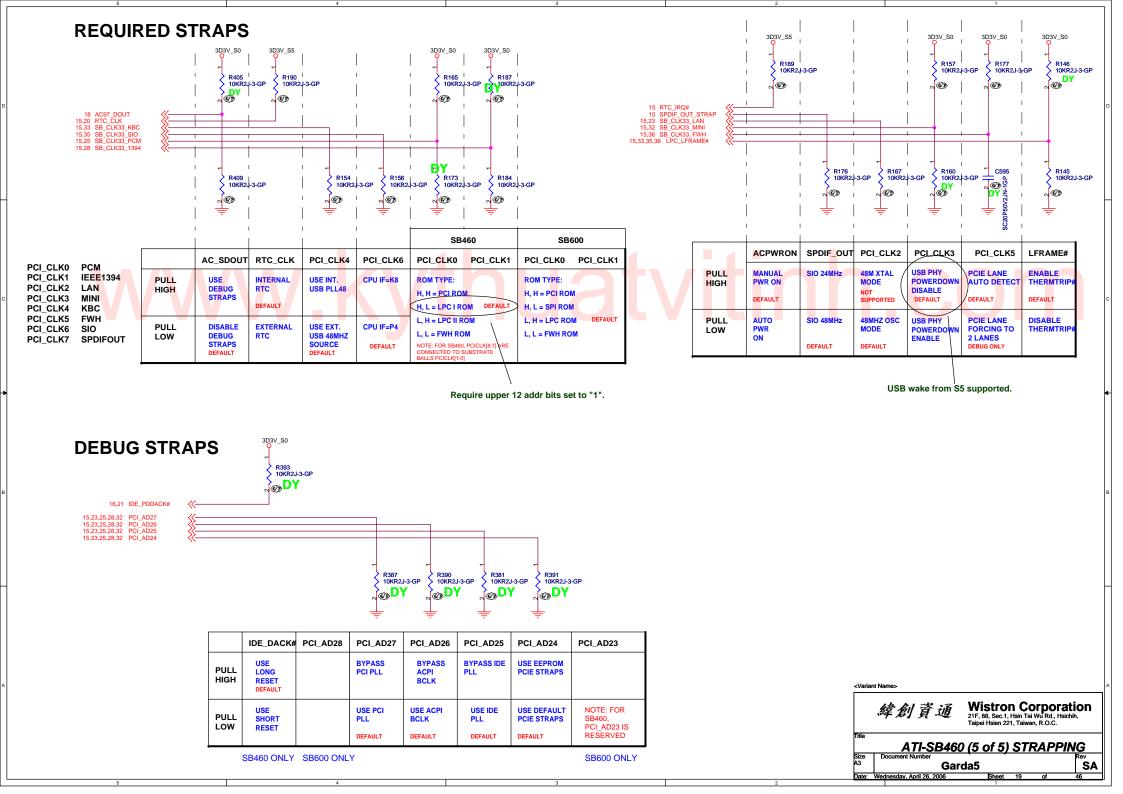


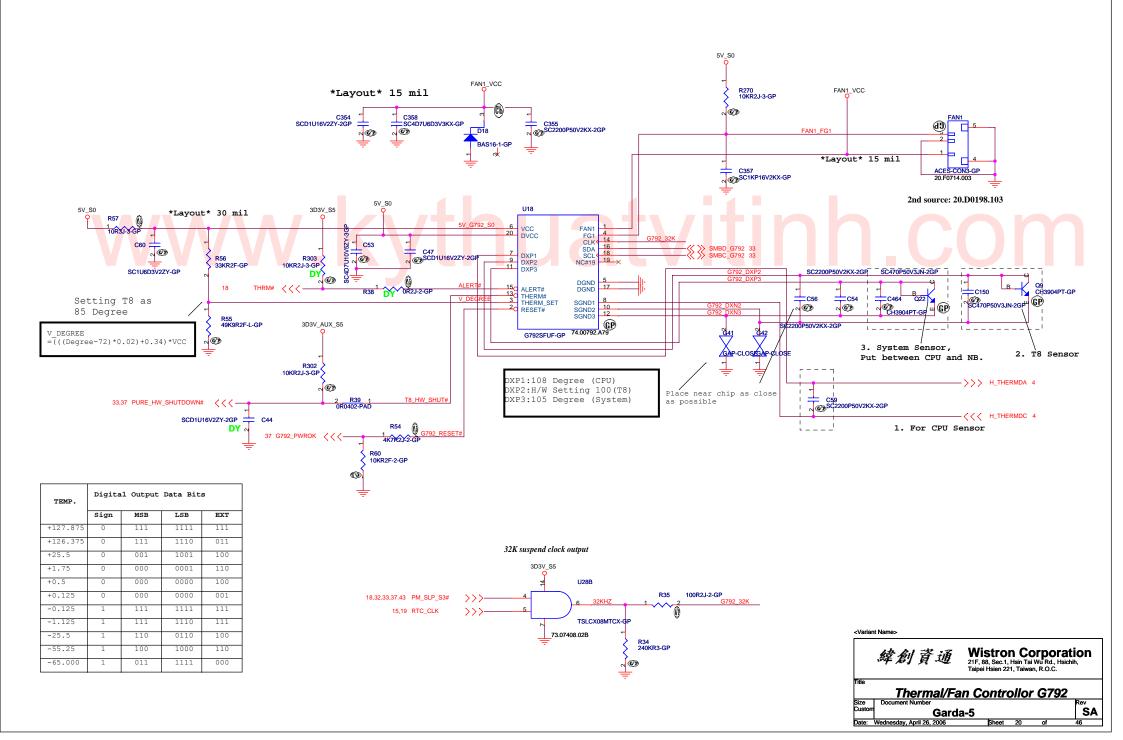


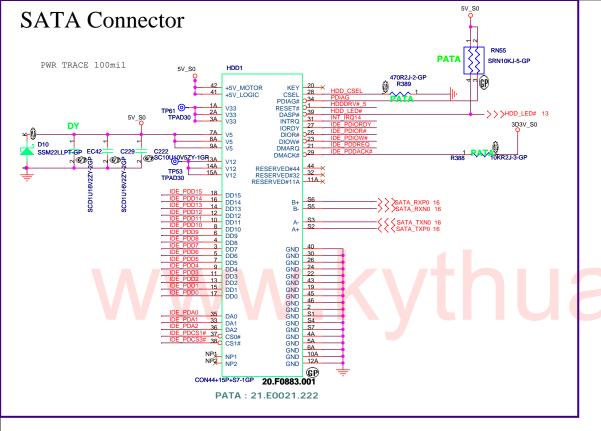




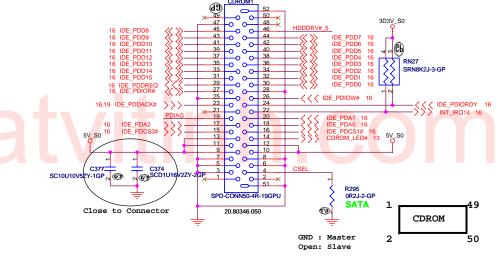


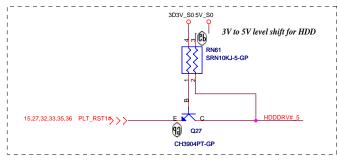




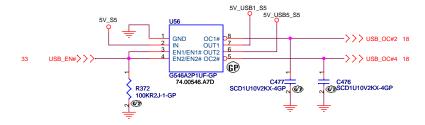


CDROM Connector

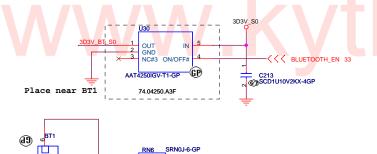


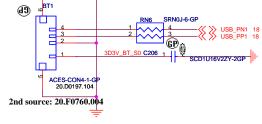


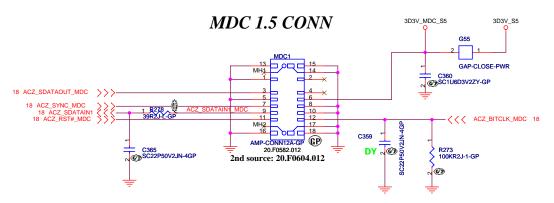




BLUETOOTH MODULE CONNECTOR



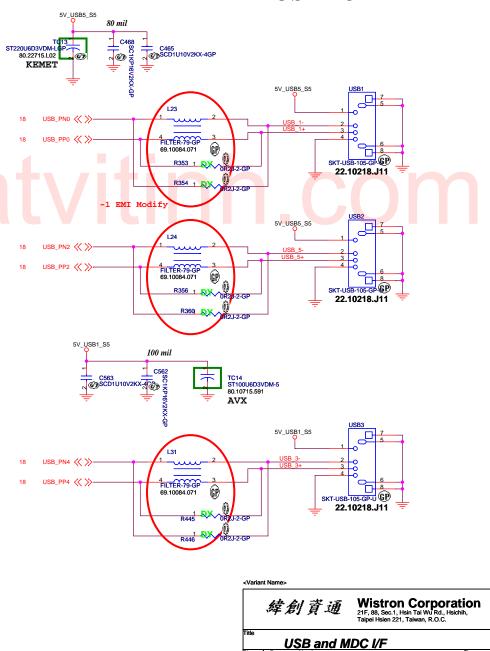


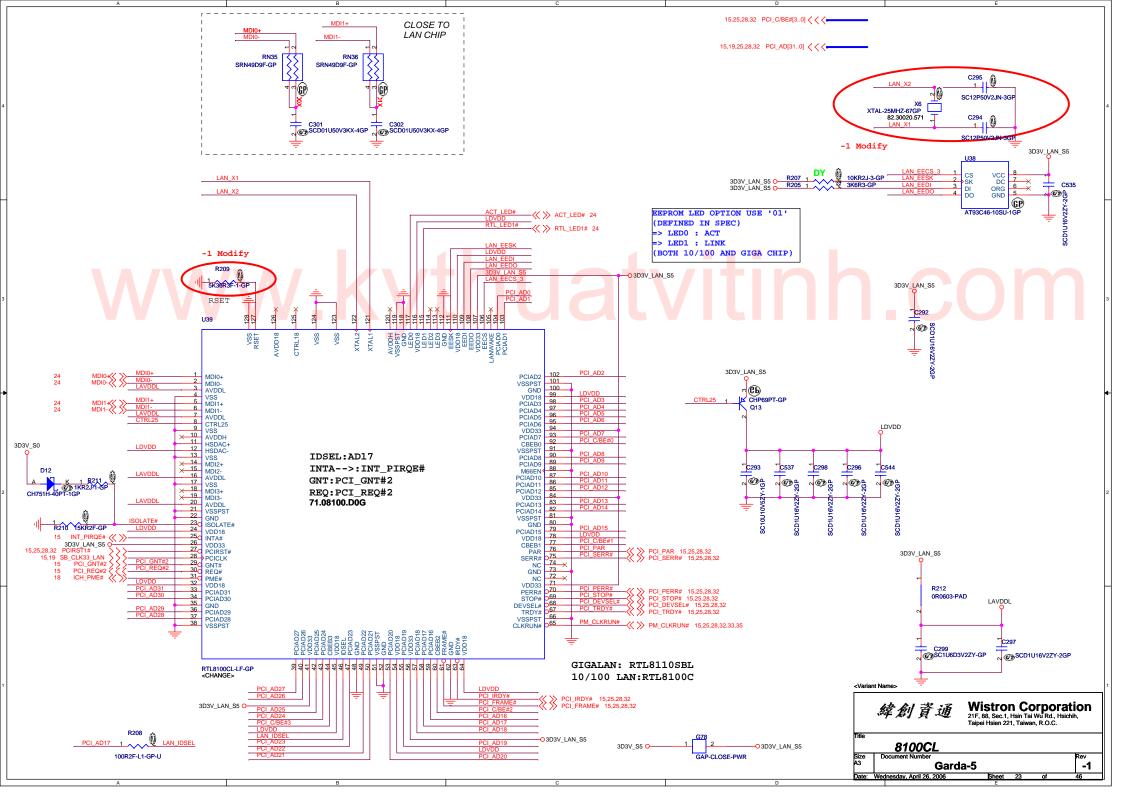


USB PORT

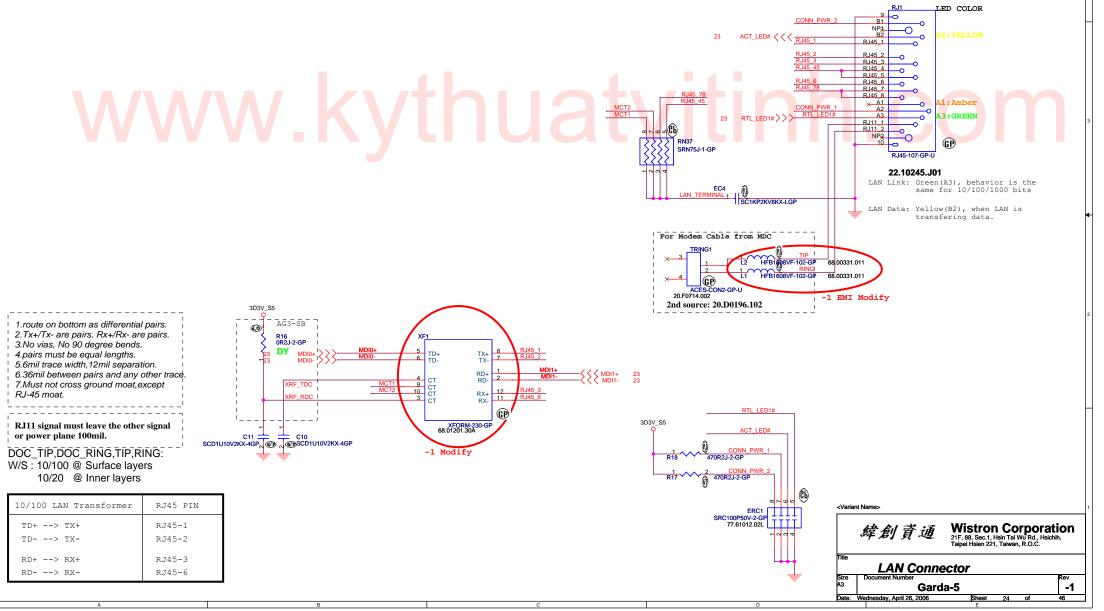
Garda-5

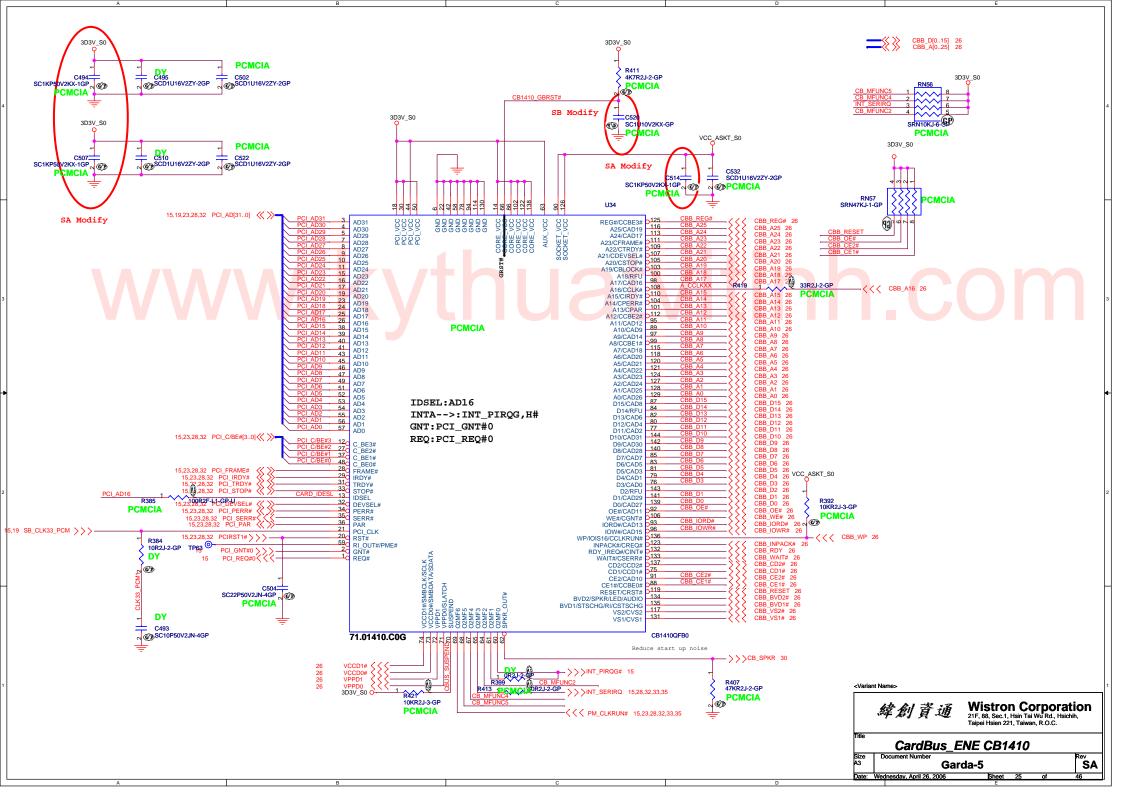
-1

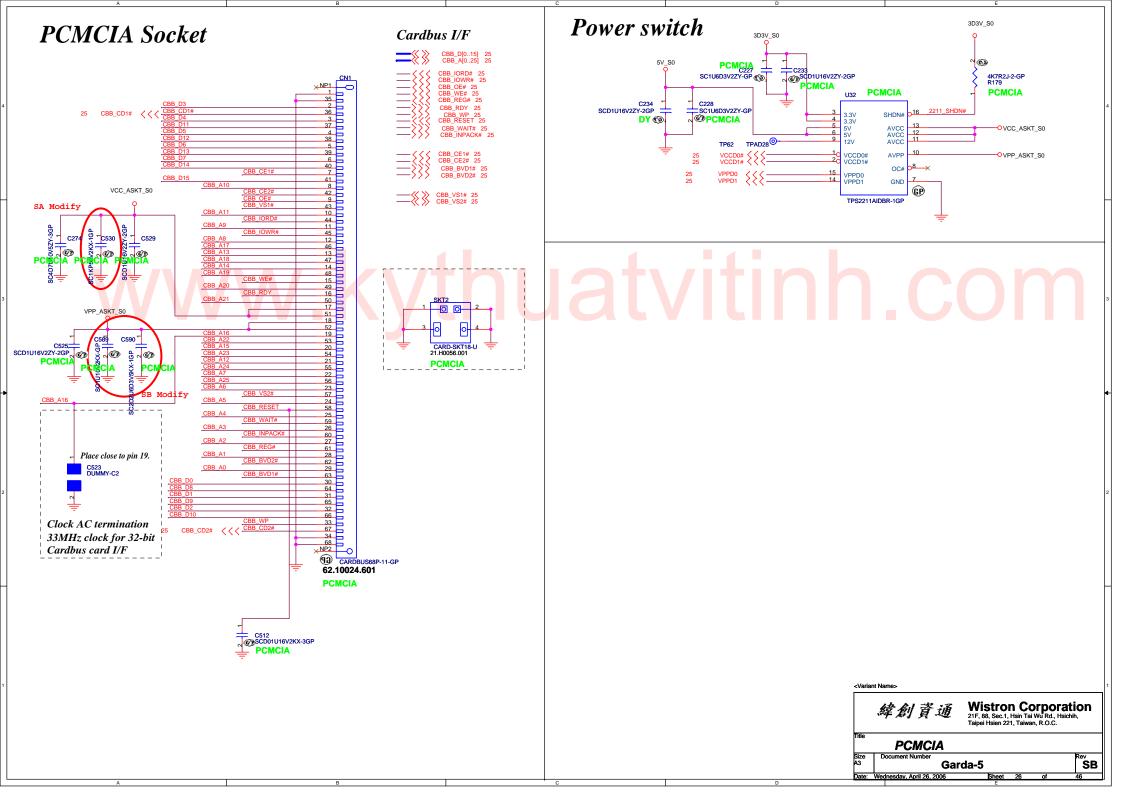


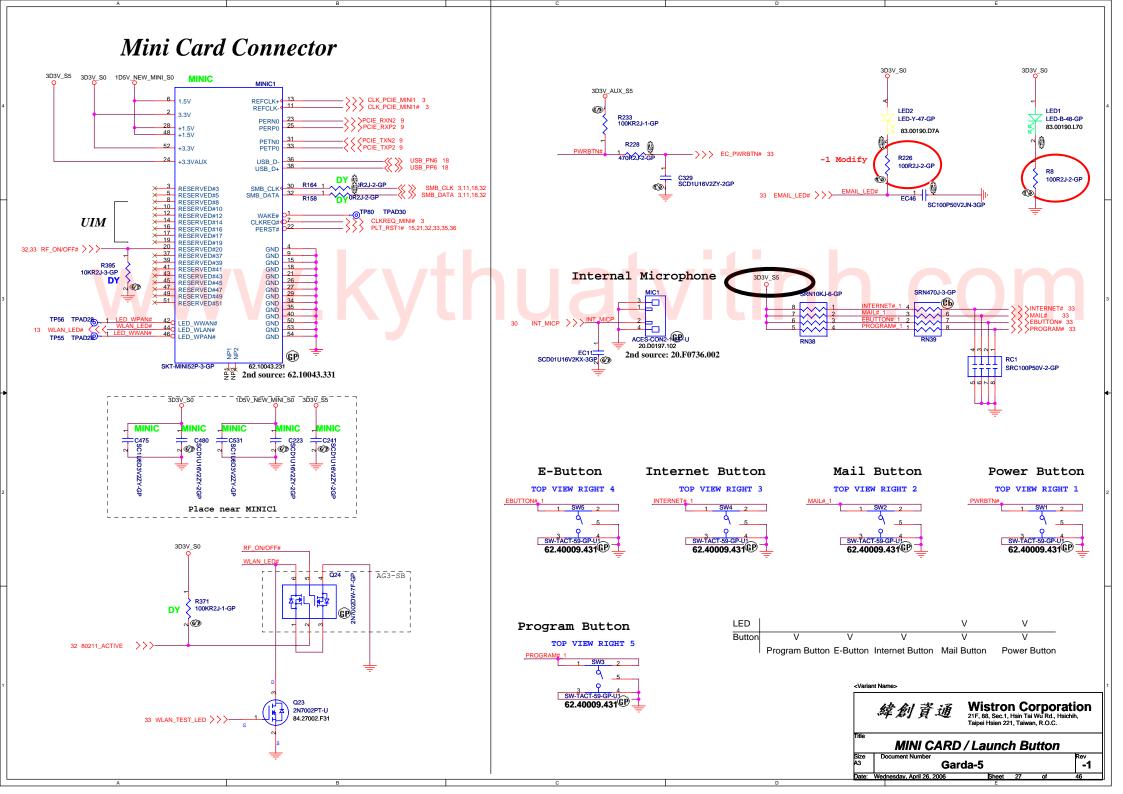


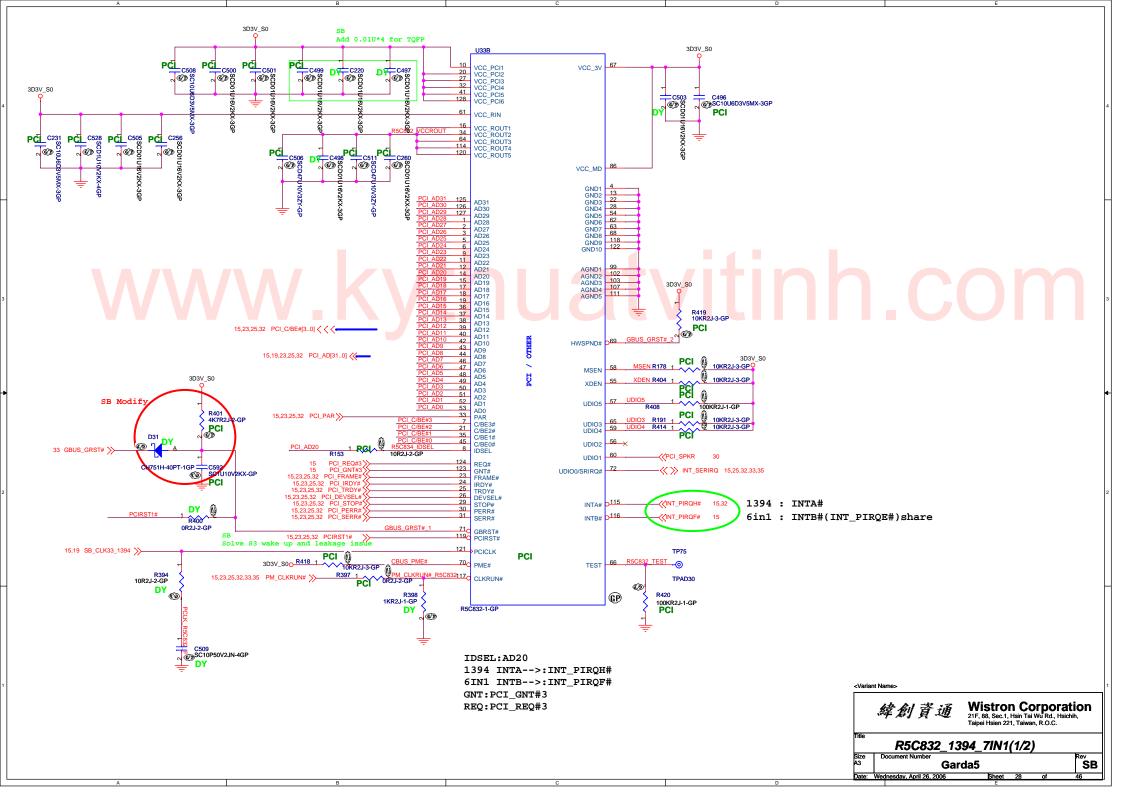
LAN Connector

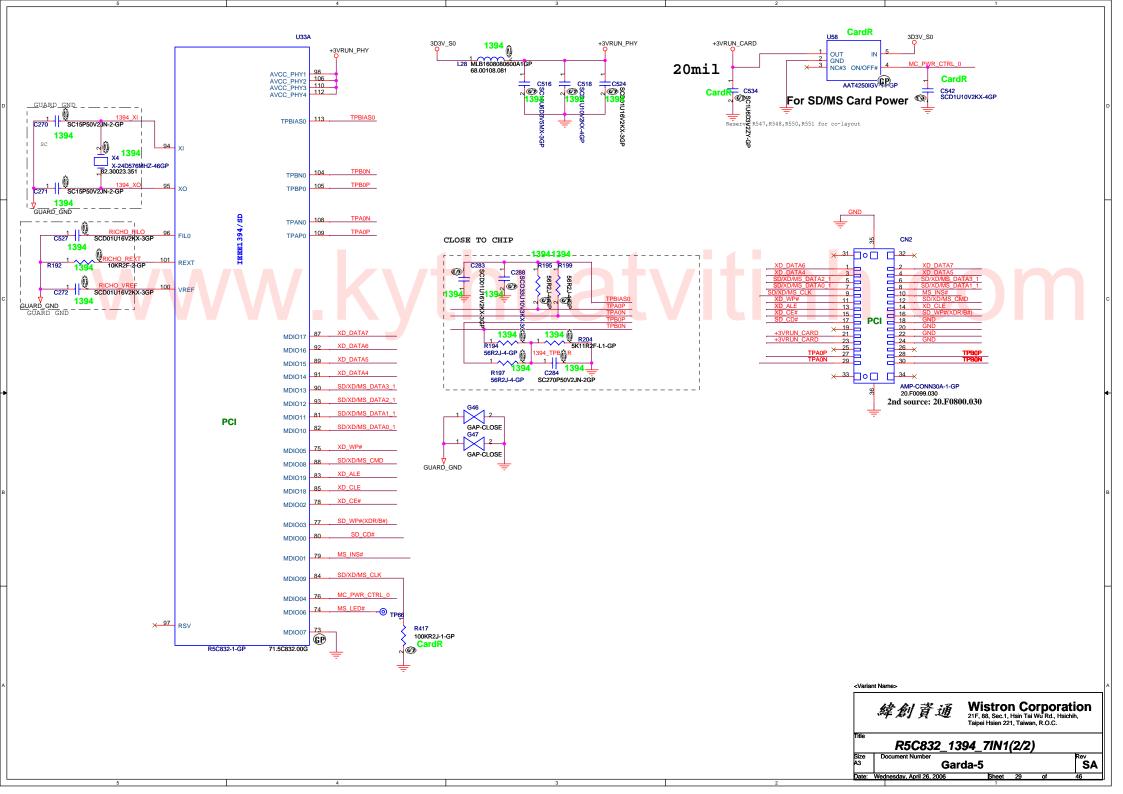


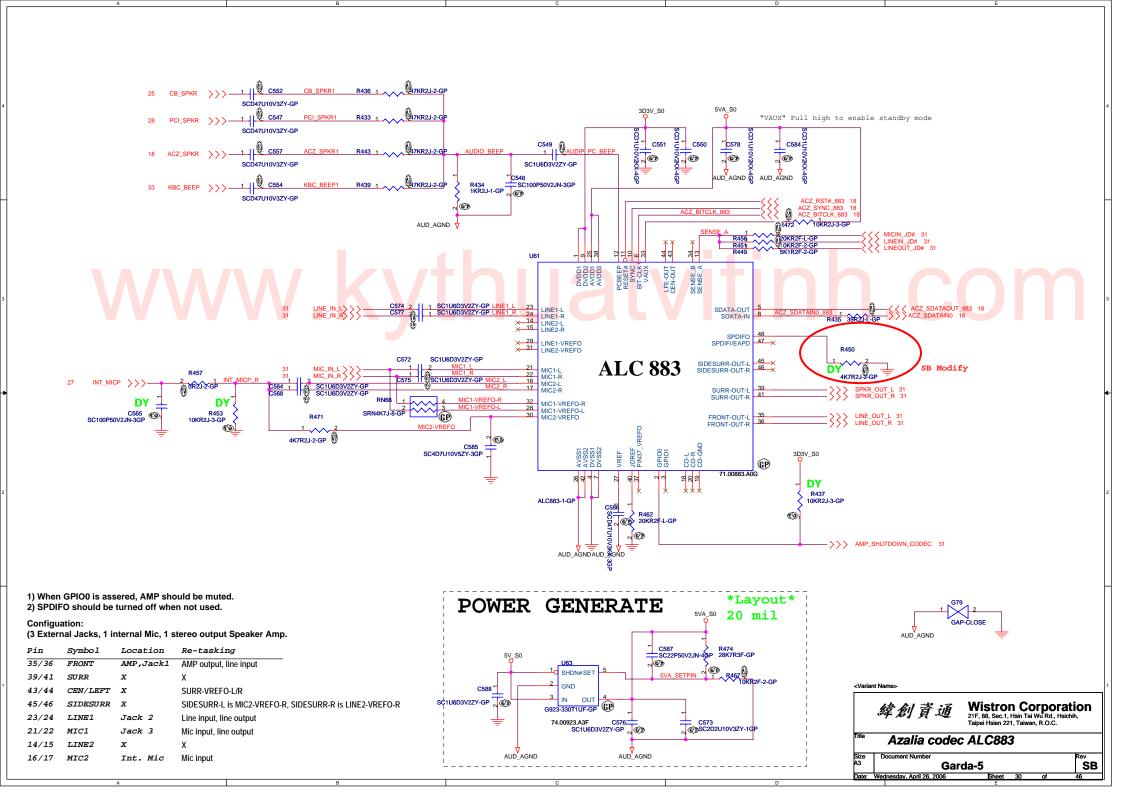


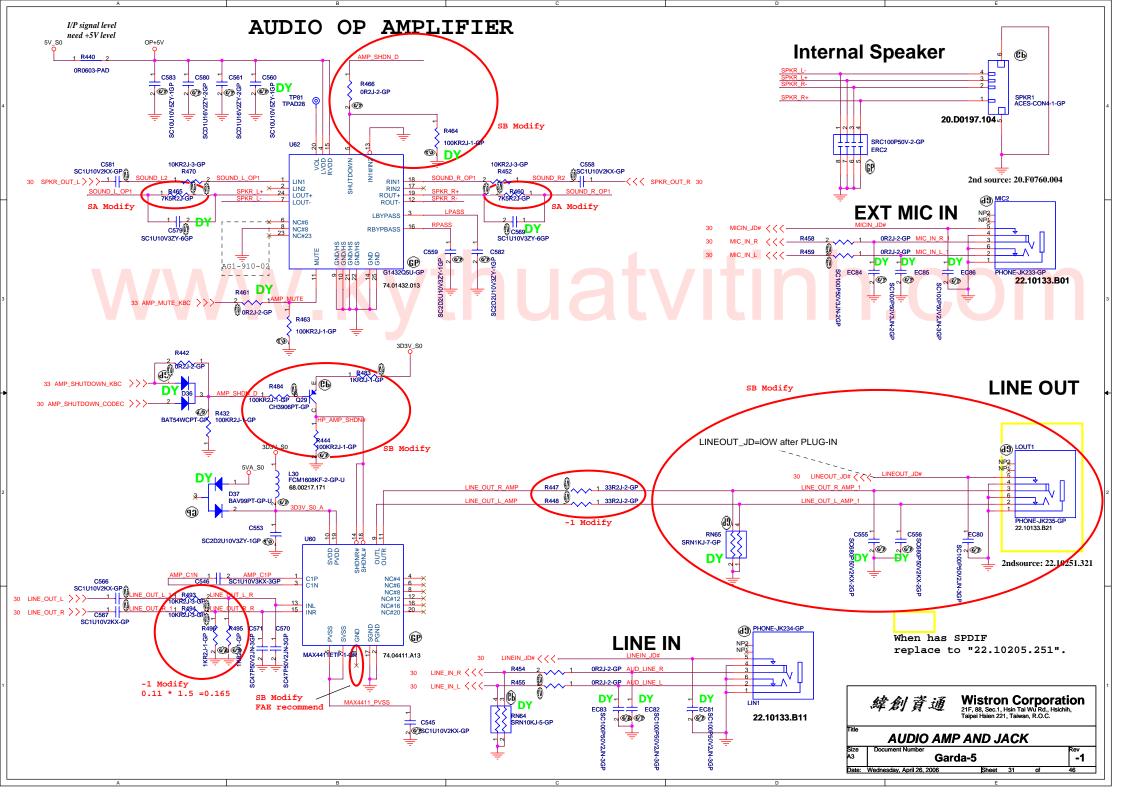


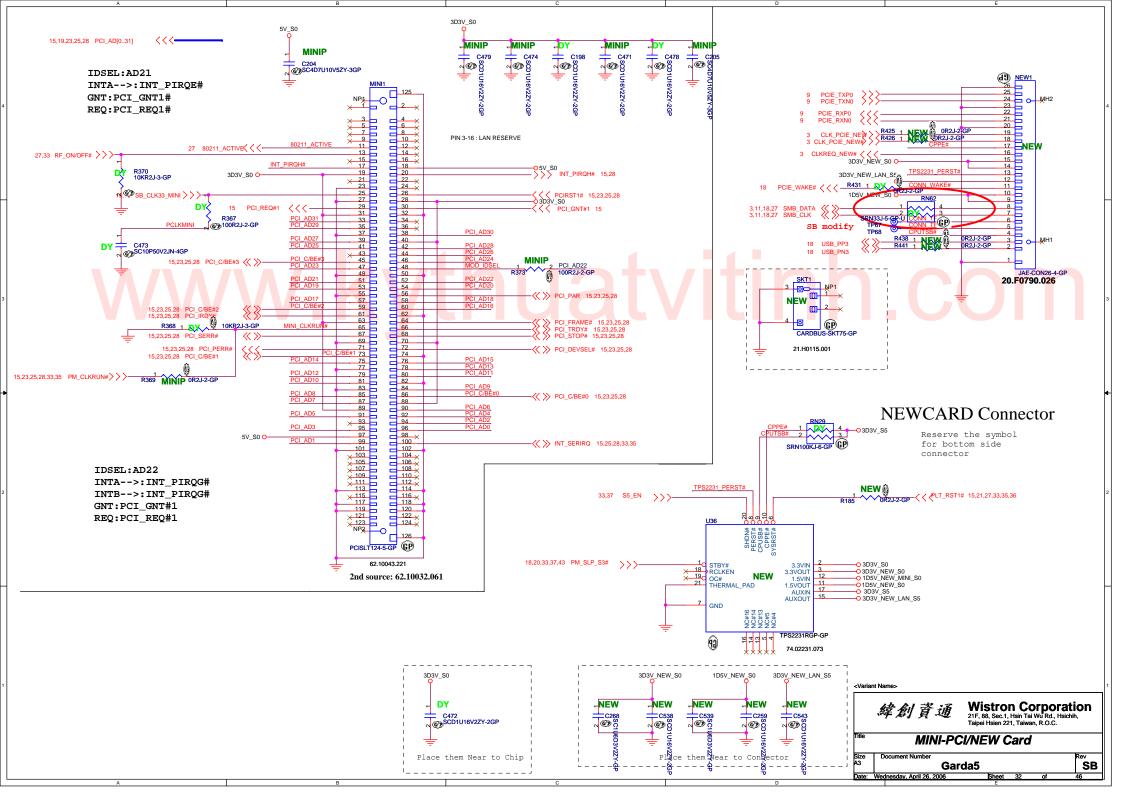


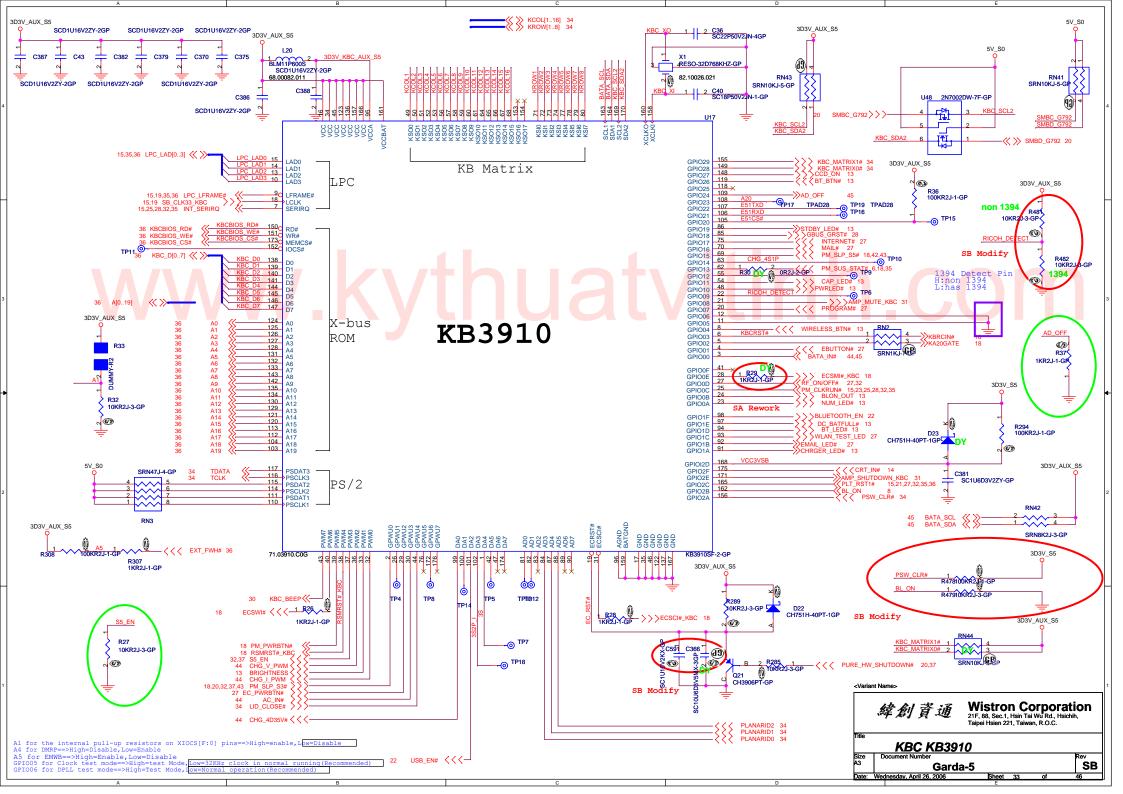


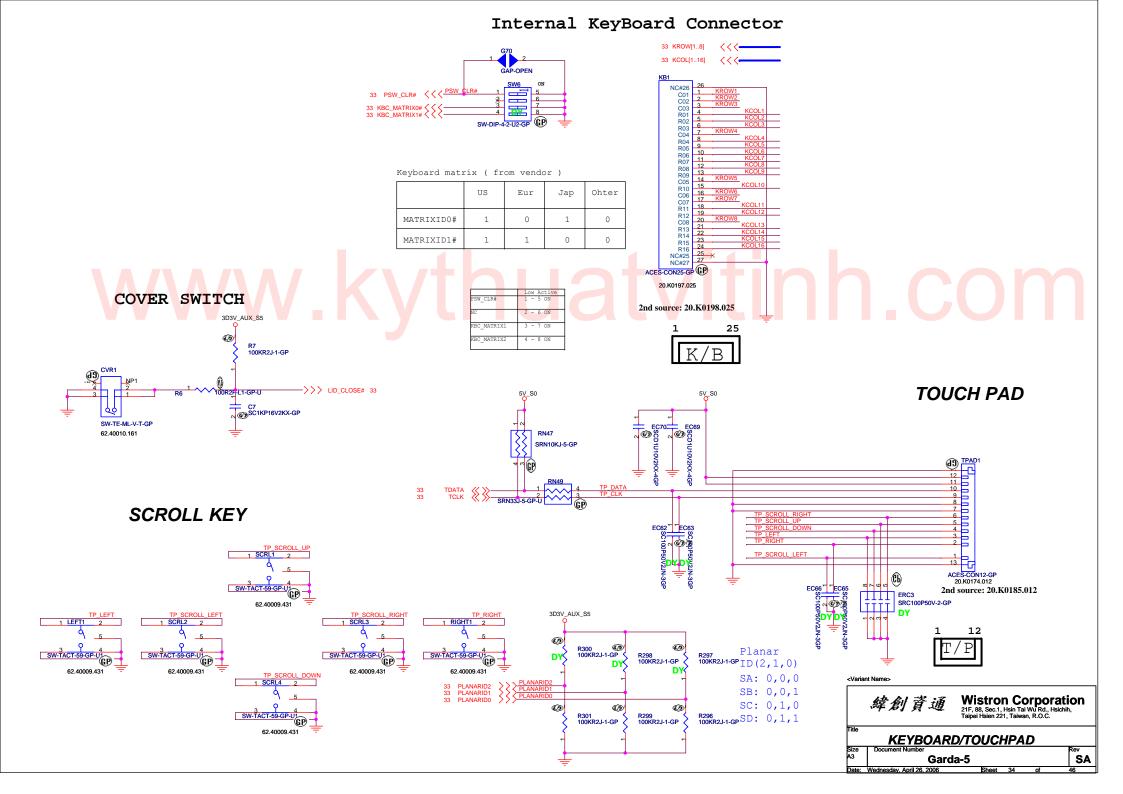


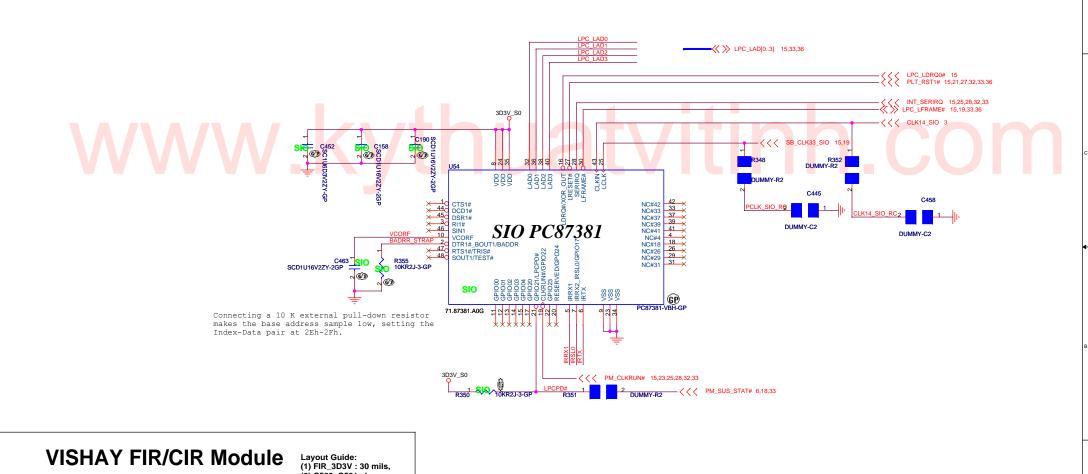


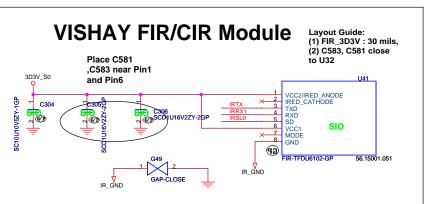










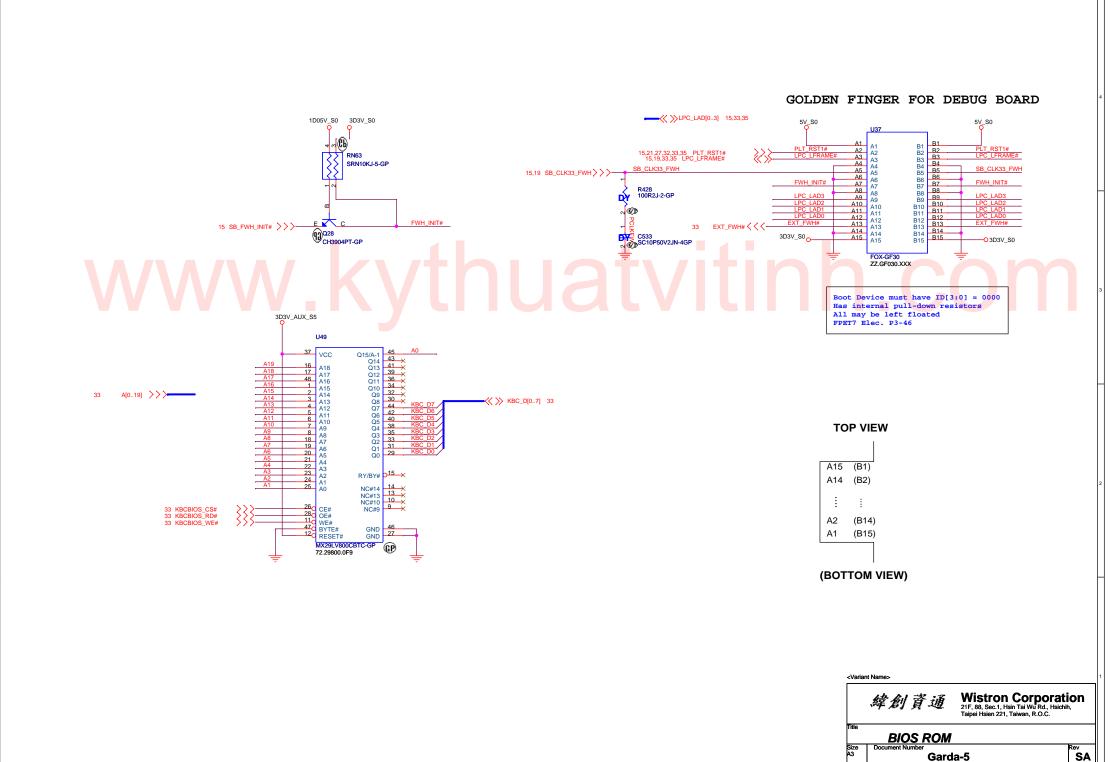


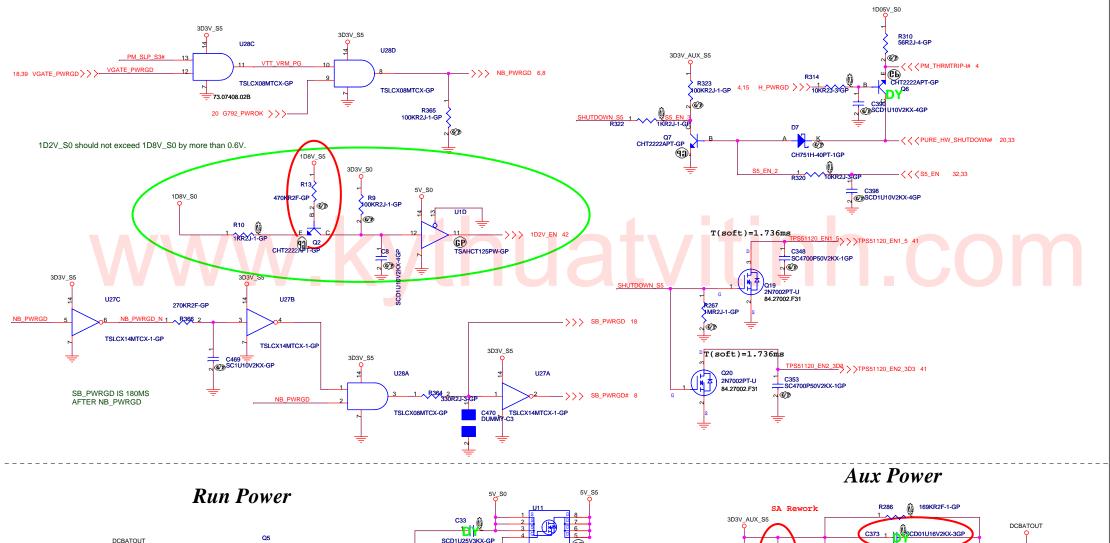
緯創資通 Wistron Corporation 21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichin, Taipel Hsien 221, Taiwan, R.O.C.

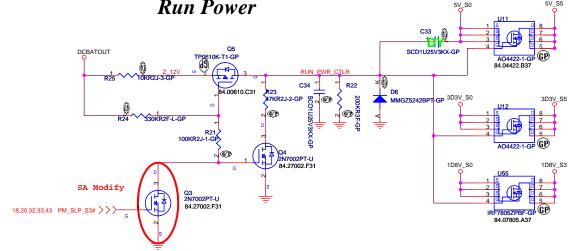
SIO 87381 / FIR

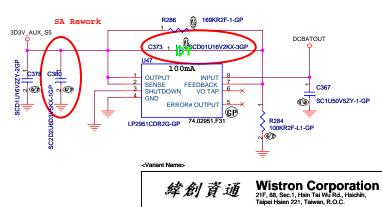
Garda-5
: Wednesday, April 26, 2006 | Sheet 35 of

Rev SA





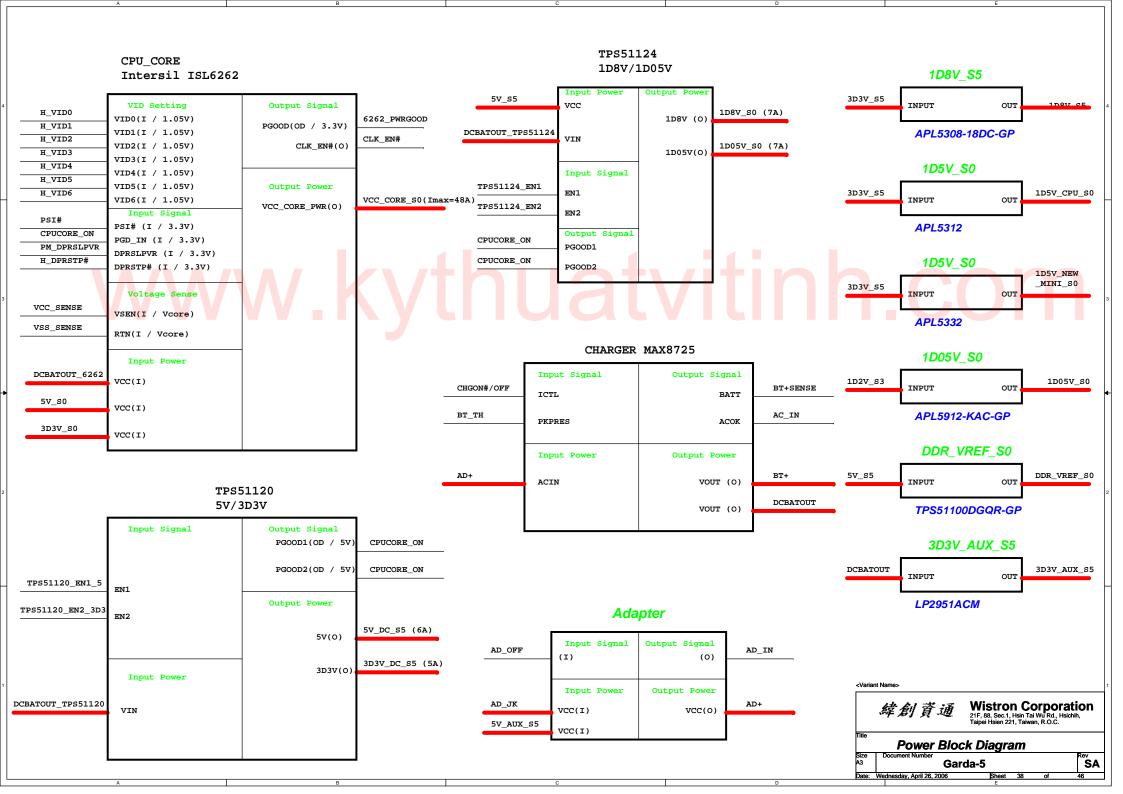


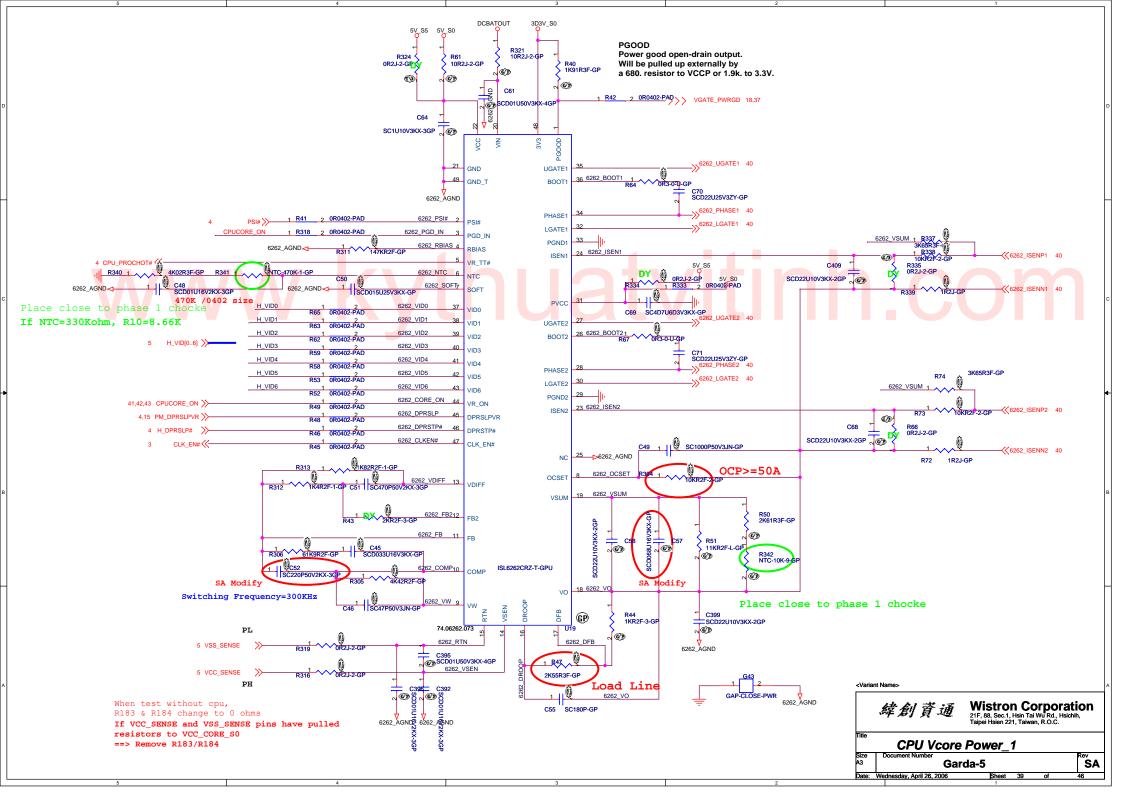


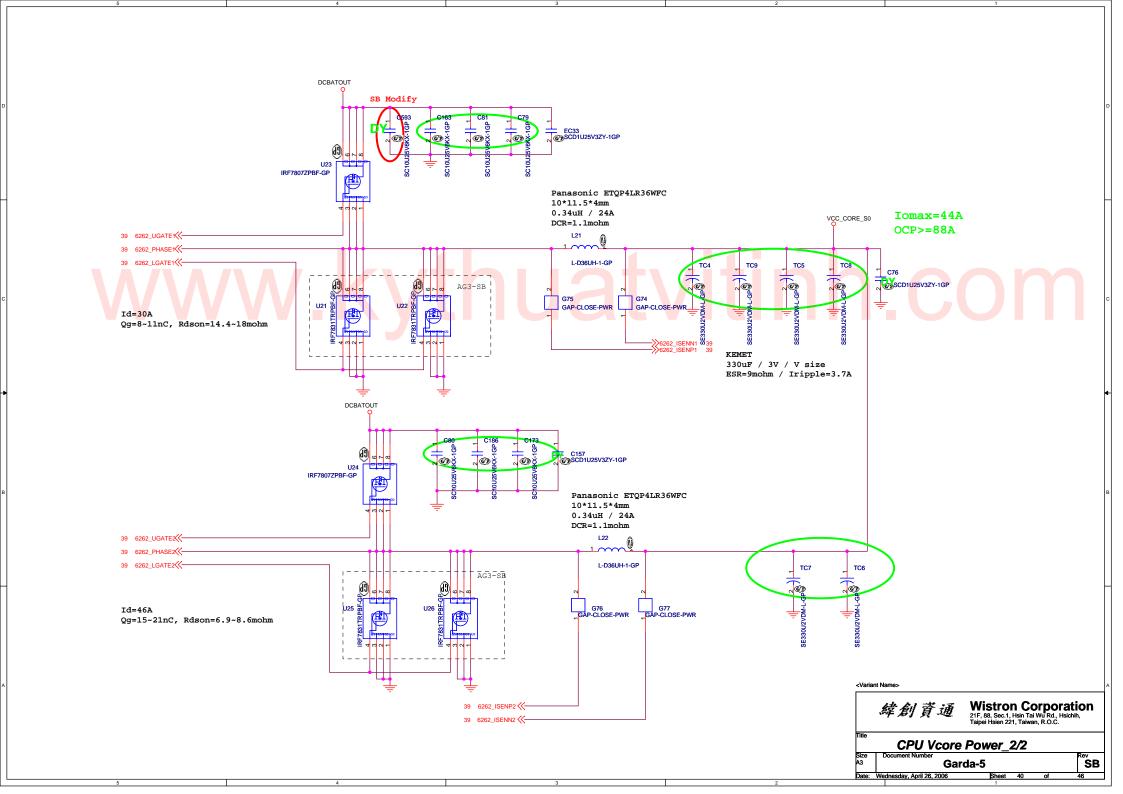
RUN and AUX POWER

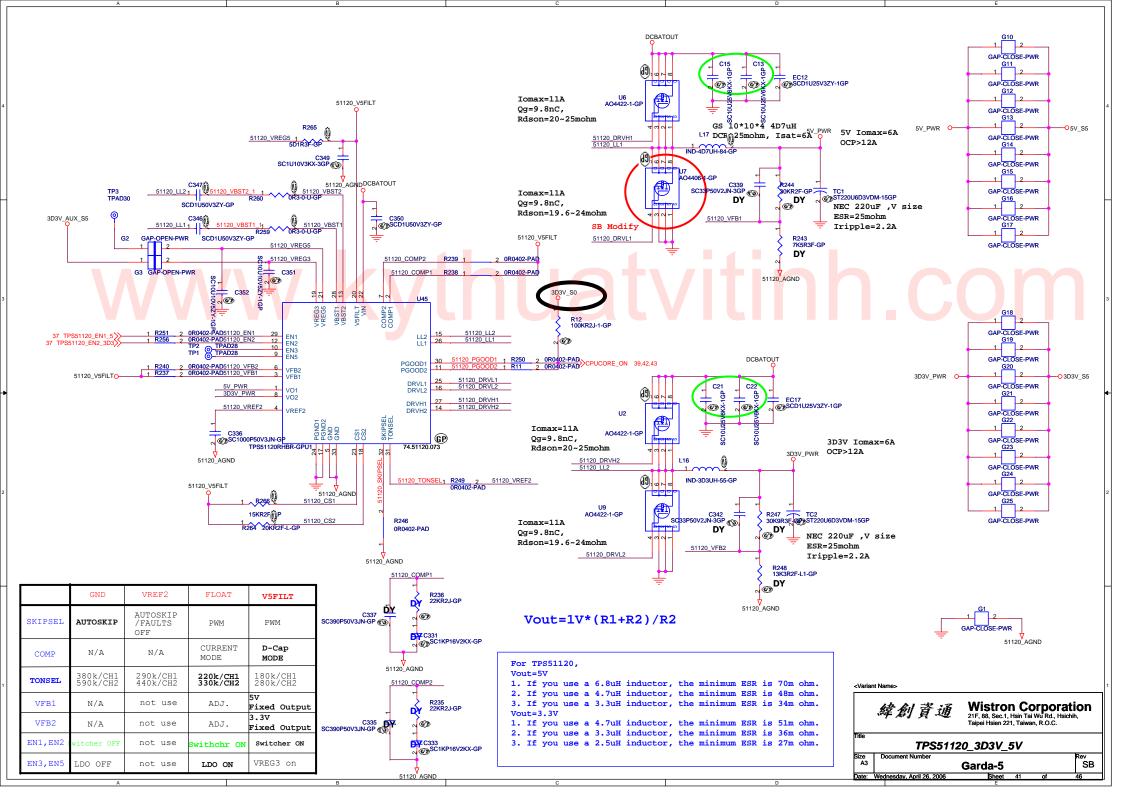
Garda-5

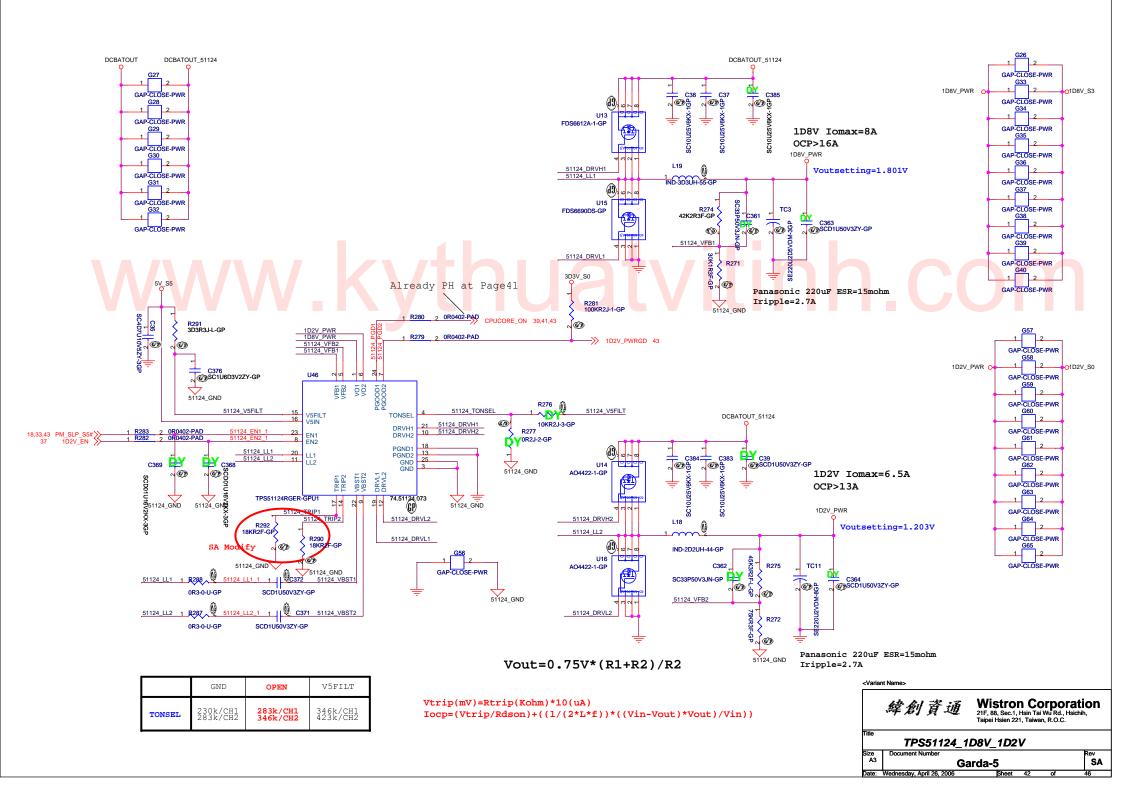
Rev SA

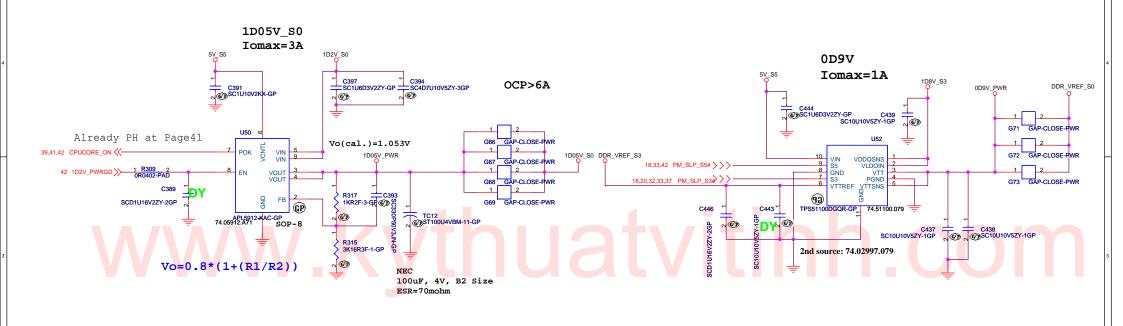












For New Card/MINI Card solution

